Internet parent–child interaction therapy (I-PCIT) in medically ill child

A case report

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Abstract

Introduction: This case illustrates the feasibility, benefit, and putative enhanced ecological validity of performing internet-parent–child interaction therapy (I-PCIT) in the parent–child dyad’s home for the treatment of behavior problems in medically ill children in the context of a global pandemic.

Patient concerns: Parents of a 5-year-old girl initially presented with concerns regarding inattentiveness, physical and verbal fighting with her siblings, and getting kicked out of daycare for hitting another child. Patient also had difficulties sleeping at night.

Diagnoses: Patient was diagnosed with electrical status epilepticus in sleep, frontal lobe executive function deficit, and attention deficit hyperactivity disorder.

Interventions: Patient received a course of I-PCIT. Equipment included a cell phone with video capabilities connected to a videotelephony software program and set-up in the child’s home by the parents. The treatment course included 8, 1-hour, weekly teaching/coaching sessions (7 of which were performed using I-PCIT) plus 1 follow-up booster session 6 months later.

Outcomes: Home-based I-PCIT implementation greatly improved disruptive behaviors in a young child with electrical status epilepticus in sleep and attention deficit hyperactivity disorder.

Conclusion: A combination of I-PCIT and methylphenidate allowed her to be successful at home and in a school setting. More research is needed on PCIT adaptations, such as home-based and internet-based PCIT, for medically ill children as well as treatment protocols for combined therapies.

Abbreviations: ADHD = attention deficit hyperactivity disorder, BPT = behavioral parent training, CDI = child-directed interaction, ESES = electrical status epilepticus in sleep, I-PCIT = internet parent–child interaction therapy, PCIT = parent–child interaction therapy, PDI = parent-directed interaction.

Keywords: attention deficit hyperactivity disorder, medically ill child, parent–child interaction therapy (PCIT), remote-therapy, young children

Key point

- Despite there being a well-documented adverse impact of childhood chronic illness on the functioning of the child and parent–child relationship, there is limited data on parenting interventions for treatment of disruptive behaviors in chronically ill children.
- The current COVID-19 pandemic has exacerbated both the need for treatment of behavior problems in medically ill children and the barriers to receiving the otherwise standard in-person PCIT.
- PCIT adapted for home-based and internet-based sessions successfully reduced disruptive behaviors in a medically ill child.
- Technology needed was minimal: a cell phone with video capabilities and a videotelephony software program.

1. Introduction

The prevalence of chronic health conditions in children has progressively increased since the 1960s. The latest epidemio-
logical studies suggest that up to 25% of U.S. children aged 2 to 8 years have chronic health conditions, such as obesity, asthma, other physical conditions, or behavior/learning problems, that interfere with daily activities of life or require medication or specialized health services. The impact of childhood chronic illness can be substantial, affecting both the child and the family unit.

Children with chronic health conditions have an increased risk of impaired social functioning, school absenteeism, and lower self-esteem. They are up to 3 times more likely to experience co-morbid emotional, development, and behavioral problems like depression or anxiety (internalizing, emotional problems), difficulty learning, understanding, paying attention, communicating, speaking, or being understood (developmental problems), and aggression, acting-out, fighting, bullying, or arguing (externalizing, behavioral problems).

Psychosocial interventions are considered first line treatment for behavior problems in younger children, with the most evidence to support behavioral parent training (BPT). However, despite the well documented impact of chronic illness on functioning of the child and parent-child relationship, there is limited data on parenting interventions for chronically ill children.

Parent-child interaction therapy (PCIT) is 1 example of a widely used and evidence-based BPT approach for the treatment of emotional and disruptive behavior disorders in children aged 2 to 7 years. Traditional PCIT was developed as a clinic-based program for the treatment of disruptive, externalizing behavior disorders in children aged 3 to 6 years old. A limited number of prior case reports and 1 case series have provided support for the application of PCIT in chronically ill or medically complex children. These reports outlined treatment courses where PCIT was either performed within outpatient mental health settings (the setting that PCIT was originally designed for) or adapted to the hospital bedside.

PCIT integrates operant conditioning techniques and play therapy to encourage a secure caregiver-child relationship through 2 phases of treatment: child-directed interaction (CDI) and parent-directed interaction (PDI). The Dyadic parent-child interaction coding system is a well-studied, standardized coding system that is used to assess caregiver’s skill goal criteria and determine when it is time to progress from CDI to PDI. The Eyberg Child Behavior Inventory is an empirically supported parent report instrument that uses 2 scales to assess frequency (Intensity Scale) and type of behavior problems (Problem Scale) and is also used as PCIT completion criteria, with the goal being to fall within ½ standard deviation of the normative mean and for parents to express self-assurance in handling their child’s behavior.

The current study presents an adaptation of PCIT for telemedicine for the treatment of disruptive behavior problems in the case of a 5-year-old girl with a history of electrical status epilepticus in sleep (ESES), frontal lobe executive function deficit, and attention deficit hyperactivity disorder (ADHD).

2. Case presentation

The patient was a 5-year-old Caucasian female with no psychiatric history. She was born full-term via vaginal delivery. Pregnancy, labor, and delivery were uncomplicated, with the exception of a brief period of hypotonia and cyanosis a few minutes after delivery that resolved without need for intubation or oxygenation. There were no concerns for maternal use of alcohol, tobacco, illicit drugs, or prescription medications during the pregnancy. Her developmental milestones were met within the expected timeframes. Family psychiatric history was notable for ADD/ADHD in her 19-year-old sister, autism and ADD/ADHD in her 16-year-old brother, depression in her mother, epilepsy in the patient’s maternal aunt and great, great grandfather, and maternal and paternal family history of intellectual disability. Recent family stressors included financial difficulties, insurance coverage difficulties, and extensive traveling related to the passing away of the maternal grandmother.

Initial behavioral concerns included inattentiveness, physical and verbal fighting with her siblings, and getting kicked out of daycare for hitting another child.

In October of 2018, approximately a year and a half leading up to the referral to psychiatry for disruptive behavior, the patient underwent an extensive medical work-up that began due to concerns with snoring in the context of behavioral outbursts (hitting and hair pulling), hyperactivity, tonsillar hypertrophy, and severe pediatric obesity (BMI ≥ 99th percentile). An overnight polysomnography to evaluate for sleep disordered breathing incidentally revealed a spike and wave electroencephalogram abnormality that lead to a referral to pediatric neurology for further evaluation. A referral to ear, nose, and throat was also made given the mild upper airway obstruction and an adenotonsillectomy was eventually performed.

Evaluation in the pediatric epilepsy monitoring unit showed persistent spike and slow wave activity in the bifrontal and bioccipital regions consistent with ESES – a rare pediatric epilepsy syndrome that puts her at risk for seizures and global cognitive regression that can manifest primarily as language and behavioral difficulties. An MRI was performed which demonstrated no underlying brain abnormalities or evidence of epileptogenic foci. Baseline neuropsychological testing revealed varying levels of provider-observed inattention, impulsivity, distractibility, restlessness, and careless mistake making. Similarly, maternal reporting varied, at times indicating high levels of hyperactivity and aggression and at other times denoting developmentally appropriate behavioral and emotional functioning. Pre-academic skills assessed by the provider fell in a borderline range, indicating moderate impairment. Cognition, in terms of intelligence, language, spatial skills, speed of information processing, and learning new information, was well developed. Mild speech articulation difficulties were noted, as well as some struggles with fine motor coordination. No formal diagnosis was made at this time, but parent management training was discussed as a treatment option in the case of worsening behavioral problems.

The negative MRI was followed up with a referral to medical genetics where a chromosomal microarray and epilepsy gene panel were recommended to search for genetic etiologies of ESES. The patient ultimately had whole exome sequencing done, which found variants of uncertain significance in the GNRIN2A and CHD2 genes. GRIN2A variants, specifically, have been reported in some childhood electroclinical syndromes like continuous spike and wave in slow-wave sleep and Landau-Kleffner syndrome that are associated with ESES. The recommendation at this time was to hold off on antiepileptic medication given the absence of clinical seizures or developmental regression.

The ear, nose, and throat specialist initially assessed the behavioral problems to be daytime manifestations of sleep disordered breathing. However, while the snoring and other
obstructive airway symptoms improved after the adenotonsillectomy, the behavioral problems persisted. With the behavioral concerns progressing, a trial of acetazolamide was initiated. However, despite a significant improvement on acetazolamide in terms of absence of epileptiform discharges recorded on electroencephalogram, behavioral concerns persisted.

Repeat neuropsychological testing done a year apart included suspected depression due to frequent mood changes and irritability, as well as maternal concerns for extreme struggles in the patient’s ability to guide and manage behavior and emotions at an age-appropriate level. Teachers indicated struggles with turn taking, instigating bullying, aggression, and unusual behaviors (eg, unaware of surroundings) and social skills.

Taken together, the patient was diagnosed with frontal lobe and executive function deficit at this time. The findings at this time also suggested a diagnosis of ADHD. Although the exact etiology of the behavioral problems or cause for progression of severity remained unclear, parent management training (specifically PCIT) was again discussed and recommended as the first line treatment to target the behavioral concerns before trialing medication.

2.1. Intervention

The patient presented to the clinic with her mother, father, and sister in March of 2020 for an in-person pretreatment assessment of child and family functioning. They were deemed to benefit from PCIT and started psychotherapy. However, after the first CDI teaching session, due to the COVID-19 pandemic, a decision was made to transition to home-based internet-PCIT (I-PCIT) using nothing more than a cell phone with video capabilities that was connected to a videotelephony software program and set-up in the child’s home by the parents. During treatment, the mother’s ratings of the patient’s behavior were tracked at the beginning and at the end of the treatment using the Eyberg Child Behavior Inventory Scale (see Fig. 1). With the sudden closure of schools in Minnesota the family continued to report increased challenges with everyone being at home. The parents reported difficulty with completing the 5 minutes per day of special play time (ie, time spent practicing CDI/PDI skills) due to being busy setting up everyone’s online schooling. A considerable time was spent discussing ways the family might organize their schedule and helping the family problem solve around the new challenges with their new daily routine. A scheduled 5 minutes was found every evening before dinner to practice special play time. On session 5 of CDI coaching the parents reported daily practice of special play time and effectiveness of selective ignoring in significantly reducing disruptive behaviors.

2.2. Outcome

Both parents made a tremendous progress in their skills as measured by Dyadic parent–child interaction coding system and illustrated by Figures 2 and 3. During practice of the PDI skills, the patient initially had a difficult time staying in her time-out chair, partially because it was placed in the kitchen with some toys around her. Later she was mostly compliant with parents reporting 2 to 3 time-outs per week. In the sessions the mother had to use occasional time-out warnings but no time-out procedures. Parents described the patient as happy, less impulsive, and more compliant. She continued to struggle with some hyperactive and inattentive behaviors, but they were much more manageable per the parents’ report. Scheduled home-based I-PCIT coaching sessions stopped after a total of 8, 1-hour, weekly sessions. The patient presented for a booster session 6 months later after she was started on methylphenidate by her

![Figure 1. Results for externalizing behavior problems (parent report). ECBI clinical cut-off score is 132. ECBI = Eyberg Child Behavior Inventory.](image-url)
pediatrician for management of ADHD symptoms (persistent high energy and significant need for redirection in in-person kindergarten leading to difficulty completing assignments). No side effects to the medication were reported at this time. After 2 booster sessions mother was confident in managing patient’s defiant behaviors. The parents maintained their Do and Don’t skills as illustrated by Figures 4 and 5. The mother was reportedly very pleased with how well the patient was doing overall in her in-person kindergarten. She was able to follow her academic instruction and work on her small homework assignments after school. The summary of patient’s clinical features and treatment is provided in Table 1.

3. Discussion
To our knowledge, this is the first case report of a child with a neurologic disorder (ESES) that is associated with neuro-behavioral symptomatology and externalizing problems for whom home-based I-PCIT was an effective treatment. There are several case studies of children with medical conditions where externalizing behavior problems improved with standard in-person PCIT. Our patient started with standard PCIT protocol but due to the COVID-19 pandemic had to be transitioned to I-PCIT after 1 in-person session. A small subset of controlled trials have shown the efficacy of telepsychiatry for providing individual and group based caregiver behavioral training for the treatment of disruptive behaviors and related disorders in children. However, only one of these studies looked at fully remote and home-based PCIT specifically and none included children with other significant medical conditions. That being said in a case series by Christian-Brandt and Santacrose (2020) where they discuss various adaptations to bedside PCIT for medically ill children, use of telemedicine is listed as one of the strategies.

Together, these studies have set the stage for the use of telemedicine to address gaps in mental health care for children that are related to barriers like work force shortages and difficulties with cost, transportation, and stigma associated with visiting a mental health facility. In light of the well-studied barriers to treatment, in-person home-based PCIT adaptations

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**Table 1**

| Patient | Summarized clinical features and treatment outcome of the presented case. |
|---------|------------------------------------------------------------------------|
| Age/gender | 5/F |
| Clinical presentation | Inattentiveness, physical and verbal fighting with her siblings, hitting |
| | electrical status epilepticus in sleep (ESES), variants of uncertain significance in the GNRIN2A and CHD2 genes found, obstructive sleep apnea |
| Co-morbid illnesses | Adenotonsillectomy, acetazolamide |
| Initial treatments | Internet-parent-child interaction therapy (I-PCIT) |
| Treatment for behavioral concerns | Difficult behaviors decreased to nonclinical levels as measured by Eyberg Child Behavior Inventory (ECBI) |

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Figure 2. Results of mother’s parenting skills (observational) based on DPICS coding during first 5 minutes of appointments. “do skills” are behavior descriptions, reflections, labeled praises; “don’t skills” are questions, commands, and negative talk. DPICS = Dyadic parent–child interaction coding system.
have been implemented and shown to be comparable in efficacy to clinic-based PCIT interventions. While a degree of control is inherently lost, advantages to home-based PCIT include lower attrition rates, enhanced ecological validity in relation to observing “real-life” behaviors in their “natural environment”, increased disruptive behavior identification, and an increased ability to individualize PCIT to families’ actual needs. However, problems of treatment availability, accessibility, and acceptability may persist. Home-based I-PCIT, as presented in this case report, is in a unique position to build on

Figure 3. Results of father’s parenting skills (observational) based on DPICS coding during first 5 minutes of appointments. “do skills” are behavior descriptions, reflections, labeled praises; “don’t skills” are questions, commands, and negative talk. DPICS = Dyadic parent–child interaction coding system.

Figure 4. Parent “Do skills” that give positive attention.
the benefits of in-person home-based PCIT and address enduring barriers to care.

This past year, the wider dissemination of telehealth services has been expedited due to the current COVID-19 public health crisis and stay at home orders that have resulted in decreased restrictions and a historic expansion of telehealth insurance coverage.[45] Effective implementation of telepsychiatry is especially imperative during this time, as a rise in mental health problems is expected in relation to quarantine, isolation, and times of increased stress due to the pandemic.[46] These factors outline the timeliness and importance of adapting PCIT to telemedicine to support families that have children with chronic illnesses who are already at increased risk of emotional, development, and behavioral problems, in addition to being immunocompromised or having difficulty leaving home. With the use of nothing more than a cell phone with video capabilities that was connected to a videotelephony software program and set-up in the child’s home, this case report demonstrates the feasibility, benefit, and putative enhanced ecological validity of performing I-PCIT for the treatment of behavior problems in medically ill children in the context of a global pandemic. Some of the expected challenges of home-based PCIT did occur, such as additional physical distractions during the sessions (eg, other family members). However, this was not a significant barrier to treatment and likely helped to bridge the gap between efficacy and effectiveness of PCIT in experimental vs real-world settings.

Six months after the PCIT treatment was completed our patient was started on a stimulant medication by her pediatrician to address her symptoms of inattention and hyperactivity which raises interesting questions regarding treatment guidelines. Currently American Academy of Pediatrics (Wolraich et al, 2019[12]) recommend that preschool-aged patients (age 4–6 years) with ADHD should undergo evidence-based BPT in behavior management (ie, PCIT) and/or behavioral classroom interventions as the first line of treatment. Medicine such as methylphenidate may be considered if psychotherapy is not successful after at least 8 weeks of treatment. In the present case I-PCIT helped significantly with disruptive behaviors and noncompliance but the patient continued to struggle with a degree of hyperactive and impulsive symptomatology that was disruptive when she entered in-person school. Methylphenidate seemed to help with that. Currently data is lacking on children with ADHD and disruptive behaviors who might benefit from combined treatment.

Our case report had a number of strengths and limitations. The biggest limitation is that it involves a narrow scope which limits its generalizability. The main strengths of our case are that it is comprehensive and well-researched and include a child with a neurologic and psychiatric disorder for whom treatments are very limited and it might be a great reference in the literature for clinicians searching for innovative treatments.

4. Conclusion
I-PCIT implementation greatly improved disruptive behaviors in a young child with ESES and ADHD. A combination of I-PCIT and methylphenidate allowed her to be successful at home and in a school setting. More research is needed on PCIT adaptations, such as home-based and internet-based PCIT, for medically ill children as well as treatment protocols for combined therapies.

Author contributions
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