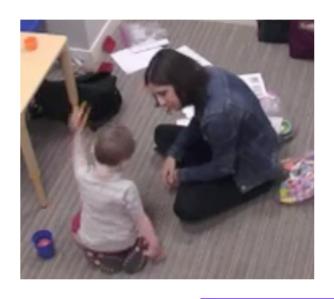
RAINBOW Study Assessment and Treatment of Behavior Problems: A Telehealth Approach

Nicole McDonald, PhD
Assistant Clinical Professor, UCLA Semel Institute

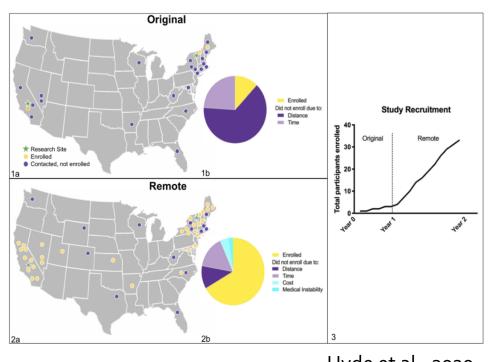
May 13, 2024 - TSC Alliance Webinar

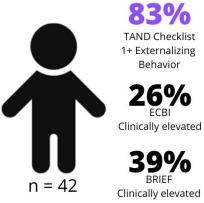
Motivation for RAINBOW Study

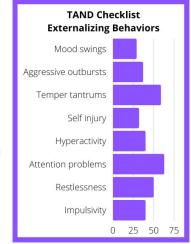




Switch to hybrid approach







Hyde et al., 2020

How do we help families of children with TSC and behavior problems?

Parent-Child Interaction Therapy (PCIT) Treatment Targets

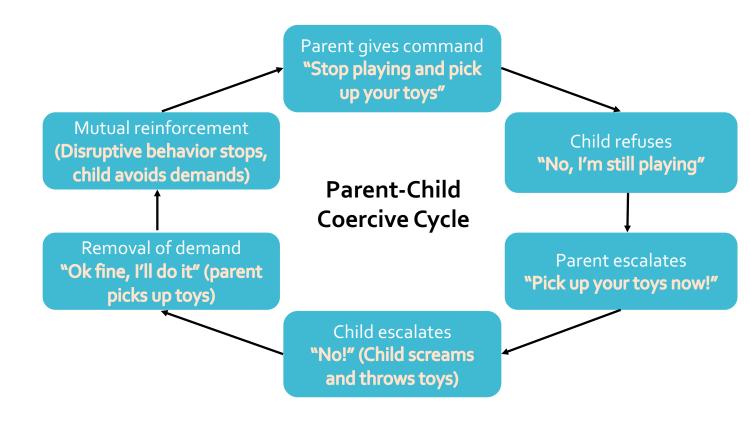
Primary target:

Reduce disruptive behavior (interrupt coercive cycle)

Secondary benefits:

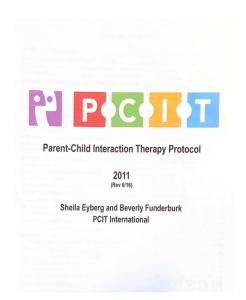
Increase positive parenting skills

Reduce parenting stress

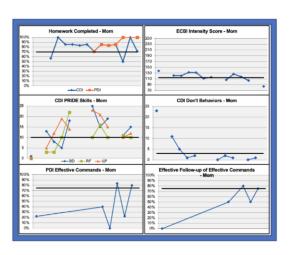


Target age range: 2-7 years old

What Does PCIT Look Like?



Manualized & skills-based



Data tracking & criterion-based

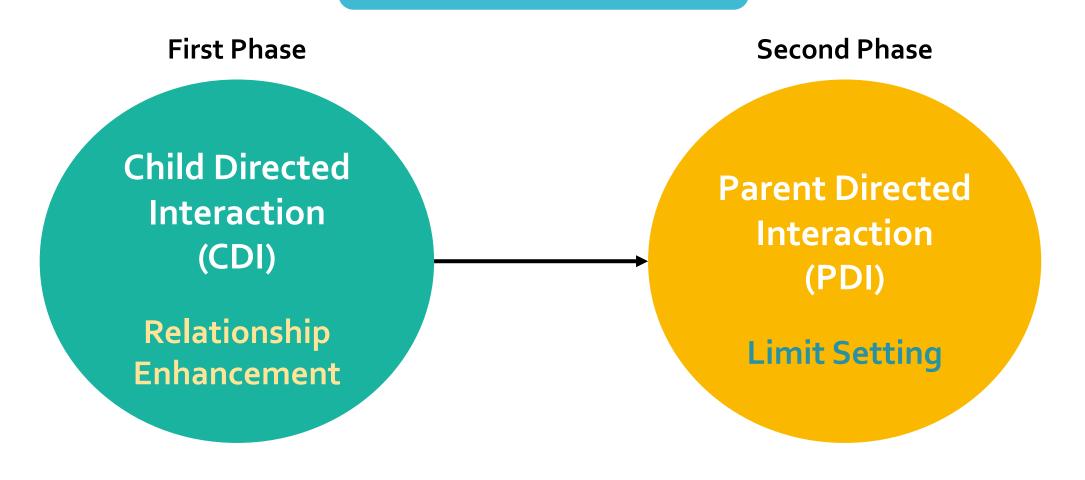


Live coaching via bug-in-ear



Play context

Format of PCIT



CDITeach

CDI Coach

PDITeach

PDI Coach+ & Graduation

What does PCIT Teach?

CDI

Follow child's lead

PRIDE skills

Selective attention

Daily special time

PDI

Effective commands

Time out procedure

Home practice

House rules

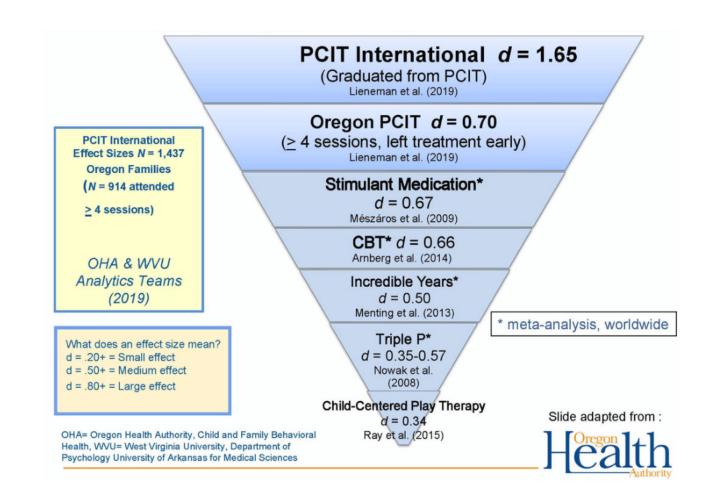
Generalization

Research Base

Large effect for disruptive behavior disorders

Has been tested across countries & languages

Effective in many community settings



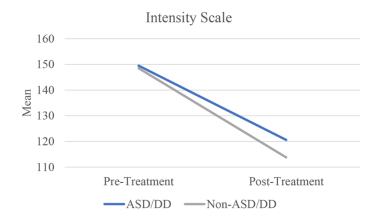
PCIT in Neurodevelopmental Disabilities (NDDs)

Journal of Autism and Developmental Disorders https://doi.org/10.1007/s10803-022-05755-0

ORIGINAL PAPER

Community-based Agency Delivery of Parent-Child Interaction Therapy: Comparing Outcomes for Children with and Without Autism Spectrum Disorder and/or Developmental Delays

Lauren B. Quetsch¹ · Rebecca S Bradley¹ · Laurie Theodorou² · Kathleen Newton² · Cheryl B. McNeil^{3,4}

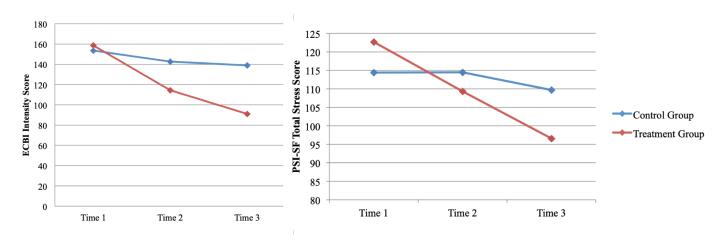


Journal of Autism and Developmental Disorders https://doi.org/10.1007/s10803-022-05428-y

ORIGINAL PAPER

Parent-Child Interaction Therapy for Children with Disruptive Behaviors and Autism: A Randomized Clinical Trial

Korrie Allen¹ • John Harrington^{2,3} · Lauren B. Quetsch⁴ · Joshua Masse^{5,6} · Cathy Cooke³ · James F. Paulson⁷



Autism: Similar reductions in disruptive behavior and parenting stress, some evidence of secondary effects on autism behaviors and adaptive skills

Intellectual/developmental disabilities: Very limited data, evidence of efficacy but possibly higher drop out rate **No studies in TSC** or other specific neurogenetic conditions

Allen et al., 2022; Bagner & Eyberg, 2007; Parlade et al., 2020; Quetsch et al., 2022; Zlomke et al., 2017; 2020

Internet-delivered PCIT (I-PCIT)

Format well suited to telehealth

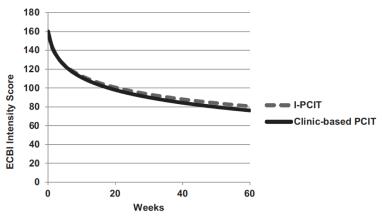
COVID-19 led to more rapid implementation of I-PCIT

Similar reductions in child disruptive behavior

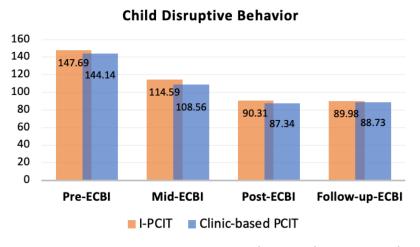
Reduced barriers to treatment



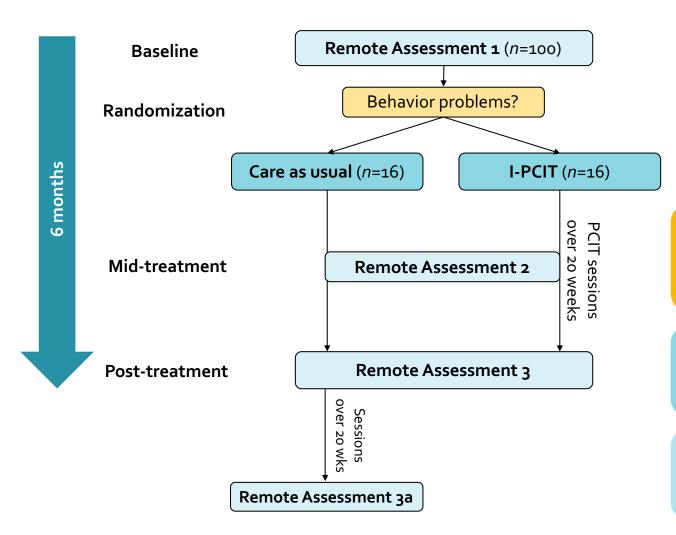
(Courtesy of Kurtz Psychology)



Comer et al., 2017



Peskin et al., accepted







<u>Aim 1</u>: How common are behavior problems in preschool-aged kids with TSC? How can we assess remotely?

<u>Aim 2</u>: Is I-PCIT doable and acceptable in families of children with TSC and behavior problems?

Aim 3: Does I-PCIT seem to work in children with TSC and behavior problems?

<u>Aim 4</u>: Who responds best to I-PCIT treatment?

What does I-PCIT look like?





Study Progress to Date



Who has signed up so far?

- -Assessment visit: 62 participants enrolled (goal=100)
- -<u>Intervention study</u>: **21** participants enrolled (goal=32)
- -47.3% girls/52.7% boys
- -Almost all had history of seizures, 66% controlled
- -44.4% had elevated behavior problems at baseline

Baseline Data	Age (years)	Vineland-3 score	ECBI score
Range	3.0 – 7.0	34.0-97.0	59-203
Mean (SD)	4.61 (1.27)	66.98 (14.76)	127.89 (30.24)

What is involved?

Remote assessment only:

- -3-4 hour time commitment
- -Video-recorded play & parent interviews over Zoom
- -Parent questionnaires
- -\$100 compensation & clinical feedback

RAINBOW Study



If eligible and interested, remote intervention:

- -Weekly 1 hr sessions over Zoom (45-60 mins) for up to 20 weeks
- -Daily 5-min practice & response to quick text
- -2-3 follow up assessments of ~1-2 hours each
- -\$50-\$100 per assessment & free toy bin

Interested in participating?

Contact: Viviana Rodriguez (vivianarodriguez@mednet.ucla.edu)

<u>or</u> Nicole McDonald (nmcdonald@mednet.ucla.edu)

Thank you!

RAINBOW Study Team



Cami Ferrario Viviana



Viviana Rodriguez



Carly Hyde



Corinna Klein



Jason Jent



Karol Grotkowski

Thank you to all of the families who have participated so far!





Questions?



Remote Assessment and Intervention for Behavior
Problems in Kids With TSC

We are seeking to learn more about behavior problems in young children with Tuberous Sclerosis Complex (TSC)

You can participate in this study from home!

This study is being led by Nicole McDonald, PhD at UCLA

Your family may be eligible for this study if your child has a <u>diagnosis of</u> <u>Tuberous Sclerosis Complex (TSC)</u>, and:

- Is 3-6 years old
- English or Spanish is the primary language spoken in your home
- · You live anywhere in the United States





This study involves <u>one virtual visit</u> which will include:

- Play interactions between you and your child
- · Parent interviews
- Questionnaires

Your family will receive:

- Feedback on your child's behavior and development from a clinician
- · \$100 gift card upon completing virtual visit

For more information, please contact Viviana Rodriguez vivianarodriguez@mednet.ucla.edu or (424)326-3118 opportunity to receive free internet-delivered behavioral treatment!





Remote Assessment and Intervention for Behavior
Problems in Kids With TSC

Nos gustaría aprender más sobre los problemas de comportamiento en niños pequeños con Complejo de Esclerosis Tuberosa (CET)

¡Puedes participar en este estudio desde casa!

Este estudio está siendo dirigido por la Dra. Nicole McDonald en UCLA

Su familia puede ser elegible para este estudio si su hijo tiene un diagnóstico de Complejo de Esclerosis Tuberosa (CET), y:

- · Tiene 3-6 años
- Inglés o Español es el idioma principal que se habla en su hogar
- Ustedes viven en cualquier parte de los Estados Unidos





Este estudio implica <u>una visita virtual</u> que incluirá:

- Evaluaciones de desarrollo basadas en el juego
- · Interacciones grabadas entre usted y su hijo
- Entrevista con los padres y cuestionarios

Su familia recibirá:

- Comentarios sobre el comportamiento y el desarrollo de su hijo
- · \$100 al completar la visita virtual

Para obtener más información, comuníquese con Viviana Rodriguez; vivianarodriguez@mednet.ucla.edu o (424)326-3118

¡Existe también la oportunidad de participar en un tratamiento conductual gratuito administrado por Internet!

REMOTE intervention study for children with TSC!

TRAIN

TSC Remote Assessment & INtervention

You and your child may be eligible to participate if:

- Your child has a clinical TSC diagnosi
- Your child is between 12-36 months of ago
- English is the primary language spoken at home
- Parent is available twice weekly for remote video conference call

Participants will receive:

- Free assessments of communication, cognition, and play
- Free evidence-based intervention
- \$150 for study completion



For more information, email: JASPERforTSC@gmail.com or text/call: (323) 451-1485



Jasper

Macal ID-ID-P-20-000010 LICE A IDD Approved Approved Date: 11/19/2021 Committee: Medical IDD 2