Teaching Parenting Skills One Resident at a Time

Lisa S. Spector, MD, Lisa Polka, LSCSW, Serkan Toy, PhD, Amber Hoffman, MD, Sarah Nyp, MD, Stephanie Andrews, LSCSW







History

- The benefits of Parent Child Interaction Therapy (PCIT) are well documented in the literature
 - Treatment benefits of PCIT found to generalize to child's behavior at school¹
 - Treatment benefits found to generalize to non-target children in the home ²
 - PCIT gains maintained up to 3-6 years post treatment ^{3,4}

History (cont)

- PCIT has been found to be effective with physically abusive parents:
 - 110 physically abusive parents randomly assigned to PCIT, PCIT (enhanced) and standard community parenting group
 - In a 2.5 year follow up the PCIT parents had a 19% re-report rate versus a 49% re-report rate for the community parenting group⁵



History (cont)

- Parental concerns regarding behavior:
 - Up to 50% of parents express concerns about their child's behavior⁶
 - Approximately 20% of school age children exhibit externalizing behavior problems; most common mental health problem among this age range⁷
- Pediatricians identified by parents as a source for parenting advice⁸

Pediatricians' role

- Pediatrician has unique role
 - due to early and ongoing contact with children/caregivers able to identify families in need of effective parenting skills⁷
- Pediatricians less likely to address behavior/discipline based on their:
 - perceived self-efficacy,
 - effectiveness of counseling
 - attitude about its importance⁹

CARE workshop

- Child Adult Relationship
 Enhancement (CARE) workshop
 - Evidence informed 6 hour workshop
 - Teaches core PCIT principles
 - CARE workshop developed by Cincinnati Children's Hospital Trauma Treatment Training Center for non-clinical adults

PCIT and CARE Comparison

PCIT

Child Directed Interaction (CDI)

CARE

Part I

"DO" skills or PRIDE skills

"DO" skills or "P's and Q's"

Praise (labeled)

Reflect

Imitate

Describe

Enjoy

Praise (labeled)

Paraphrase(Reflect)

Point Out (Describe)

PCIT and CARE

PCIT CDI AVOID skills CARE
Part I
AVOID the 3"Q's"

Questions

Questions

Commands

Quash the need to lead (commands)

Critical statements

Quit-negative talk, (avoid words such as quit, no, don't, stop and not)

Strategic Ignore

Strategic Ignore



PCIT and CARE

PCIT

Parent Directed Interaction (PDI)

CARE

Part 2

Giving Good Commands

Giving Good Commands

Time Out sequence

Broken Record (activity to reinforce Giving Good Commands)

*CARE workshop was modified (mCARE) to provide information regarding administering effective Time-Outs.

Example of Time out teaching

- Keep the Time Out command simple and remain calm
- Time out should:
 - be located where the child can see you
 - see that you are not angry
 - see what they are missing
- When it is over, IT IS over, quiet hands, quiet feet and quiet mouth
- Remember the adult's behavior is always center-stage
- For Time Out to work Time In has to be present!!!

Hypothesis

 Providing training for residents in the form of mCARE workshops will improve their attitudes, self-efficacy and self-reported clinical practice as well as their demonstrated skills with regard to use of effective adultchild interactions

Study Objectives

To determine the effect of participation in the mCARE workshop on the pediatric residents':

- beliefs, self-efficacy, and reported clinical practice with regard to use of effective adult-child interactions
- ability to utilize effective adult-child interaction skills

Study Concept & Design

- Single-site study utilizing a pretesttreatment-posttest design with a single convenience sample
- Participants were 2nd and 3rd year pediatric residents
- Intervention: three 2-hour mCARE Workshops that took place over three months (September, October and November of 2010).

Measurements

 Each participating pediatric resident completed a pre-survey, post-survey and 6 month follow-up survey.

The residents also participated in a pre and post video assessment of their CARE skills with a 3-5 yr old child volunteer.

Survey Instrument

- Initial Pre-/Post-test Survey included 40 items with 5-point Likert scale (1=Strongly Agree to 5=Strongly Disagree)
 - Pilot tested with a group of trainees similar to the target population
 - Principle component analysis has confirmed the theoretical framework
 - 6 items were dropped due to low/cross loadings

Final Survey Instrument

- 34 Items with 5-point Likert scale
 - 19 Items related to "Beliefs"
 - 6 factor structure
 - 8 items related to "Self-efficacy"
 - 3 factor structure
 - 7 items related to "Clinical Practice"
 - 3 factor structure

Sample Questions - Beliefs

F1. Beliefs about the interaction between positive parenting skills and child related factors -- 4 items

- "A parent's success in using positive parenting skills is independent of the child's"
- 1. genetic make-up
- 2. temperament
- 3. cognitive level
- 4. personality

F2. Beliefs in sensitivity for pediatrician's role addressing PCI -- 3 items

- 1. It is an invasion of privacy for a pediatrician to ask parents about discipline techniques they use with their children.
- 2. It is demeaning for a pediatrician to ask parents about discipline techniques they use with their children.
- 3. It is offensive for a pediatrician to ask parents about discipline techniques they use with their children.

Sample Questions

Self-efficacy

Factor 1. SE in Modeling behaviors -- 3 items

- "I feel comfortable modeling to a parent how to:"
- 1. praise a child for good behaviors during a pediatric encounter
- 2. give a child good command during a pediatric encounter
- 3. ignore a child's negative behavior during a pediatric encounter

Clinical Practice

Factor 2: Communicating with parents about observed problems with PCI -- 3 items

- "As a pediatrician, I have asked parents about difficulties with behavior management when I have seen a parent:"
- respond to child misbehavior by yelling
- respond to child misbehavior by using physical force
- reward negative child behaviors (ex Parent gives child candy when child has a temper-tantrum)

Assessment of Videotaped CARE Skills

- Two therapists independently coded each videotape using the Dyadic Parent-child Interaction Coding System (DPICS). 11
- Therapists were blinded to pre-/ postintervention status of the skills assessment.
- The reviewers assessed for the presence of residents performing the 3 "Do Skills" and the 3 "Avoid Skills."
- The two reviewers discussed any discrepancies in their coding to come to a consensus.

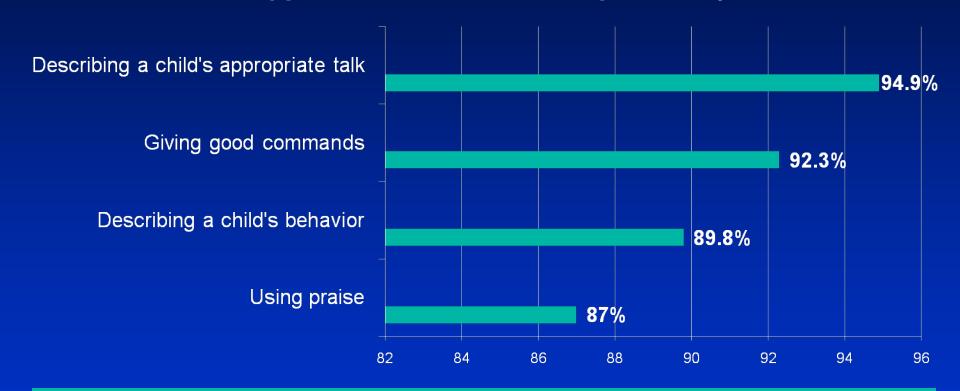
Statistical Analysis

- Descriptive statistics were reported for overall effectiveness of the workshops – follow-up questions
- Independent Samples Mann-Whitney U
 Test was used to compare pre/post-test
 survey responses
- Paired samples T test was used to compare pre/post-test Videotaped PCIT Skills

 Total of 39 pediatric residents (21 PGY2, 18 PGY3) were included for descriptive statistics regarding follow-up questions.

 Twenty-two residents were included as paired-samples for videotaped mCARE skills assessment.

I have learned new approaches that I have not previously used...



84 % I used my CARE skills Daily or Weekly

82% I feel comfortable implementing the CARE skills on my own

92% The elements of giving good commands can be useful to me as a Pediatrician

Results - Pre/Post-test Survey

Significant improvement in Beliefs

- It is a pediatrician's role to discuss parent-child related issues:
 - discipline techniques with families,
 - that it is not an invasion of privacy, demeaning or offensive.
- Parent's expectations of pediatricians to discuss parent-child related issues:
 - quality of the interaction,
 - discipline used in the home,
 - child's behavior.

Results - Pre/Post-test Survey

Significant improvement in Self-efficacy

- Reported comfort level in modeling behaviors taught in the CARE Workshop
 - including praising children,
 - ignoring negative behaviors,
 - giving good commands to children.
- Residents' ability to access resources to help parents who struggle with how to discipline their children
- Residents' comfort level in discussing parentchild issues with parents

Results - Pre/Post-test Survey

- Significant improvement in self described clinical practice
- Residents' modeling of parent-child interaction skills to parents including;
 - giving good commands,
 - positive praise,
 - ignoring negative behavior and
 - using TIME-OUT effectively
- Residents' communication with parents about observed problems noted during the office visit.

Results – 6 month Follow-up

- Included only those items pertaining to self-efficacy and clinical practice,
- Results were similar to post-test
 - No statistically significant decay was noted in the results

Table 1: Paired Samples t Test Results: Reviewers' Consensus Scores for Overall "Do Skills" and "Avoid Skills" Demonstrated in Pre-test vs. Post-test Videotaped Performance

Category	Pre-test			Post-test			T-test
category	N	M	SD	N	M	SD	1-test
Do Skills	22	1.52	1.26	22	4.50	2.33	t = 5.98 p = 0.000*
Avoid Skills	22	7.67	4.05	22	1.67	1.45	t = -6.65 p = 0.000*

^{*} Denotes a statistically significant difference at the 95% confidence interval.

Table 2: Paired Samples t Test Results: Reviewers' Consensus Scores for "Do Skills" Sub-categories Demonstrated in Pre-test vs. Post-test Videotaped Performance

Do Skills	Pre-test			Post-test			Thort
	N	M	SD	N	M	SD	T-test
Praise	22	0.45	0.96	22	3.41	2.50	t = 5.01 p = 0.000*
Paraphrase	22	3.27	3.17	22	5.41	4.82	t = 2.33 p = 0.030*
Point out	22	0.82	0.85	22	4.09	3.53	t = 4.29 p = 0.000*

^{*} Denotes a statistically significant difference at the 95% confidence interval.

Table 3: Paired Samples t Test Results: Reviewers' Consensus Scores for "Avoid Skills" Sub-categories Demonstrated in Pretest vs. Post-test Videotaped Performance

Avoid Skills	Pre-test			Post-test			Thort
	N	M	SD	N	M	SD	T-test
Question	22	20.95	11.94	22	4.05	3.76	t = -6.65 p = 0.000*
Command	22	2.00	1.77	22	0.91	1.07	t = -2.42 p = 0.025*
Negative Talk	22	0.50	0.21	22	0.50	0.21	t = 0 p = 1

^{*} Denotes a statistically significant difference at the 95% confidence interval.

Conclusion

 mCARE workshops seemed to be effective for improving pediatric residents attitudes, self-efficacy and self-report clinical practice as well as their demonstrated skills with regard to use of effective adult-child interactions



Limitations

- Group size was small
- Survey participants not identifiable
 - Impossible to match pre/post/6 month follow up responses by participant
 - Some completed the post survey did not complete the pre survey and not everyone completed the 6 month follow up
 - 36 completed pre survey
 - 39 completed post survey
 - 31 completed 6 month follow up
 - 22 completed pre/post video assessment
- Six month follow up is a short time span and may not be long enough to establish mCARE's benefits over time



Future Considerations

- Adapt mCARE workshop for the advanced professional
 - Provide resident with skills to initiate discussions on parenting and describe importance of social/emotional bond on parent-child relationship
- Assess the mCARE skills of the practicing pediatrician with patients/families
- Potential to assess for child maltreatment reports with the mCARE trained pediatrician

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Contact information: