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ABSTRACT

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The feasibility of using an observational rating schedule to elicit information about parent-child interaction was studied. The Parent-Child Interaction Rating Procedure (P-CIRP), focusing specifically on parent-child interaction with a structured teaching task, was developed for this purpose. The interaction setting is teaching the child simple two-dimensional sorting tasks. Three tasks were used: a toy sort, an eight-block sort, and a nine-block sort. Each task involves a three-part session: the examiner explains the task to the parent; the examiner leaves the room and the parent teaches the child the task; and the examiner returns to test the child's task performance with the parent present, but not intervening, so that the behavior of both the parent and child can be rated. All three parts of each session are videotaped. The P-Cirp, developed for assessment of the videotaped interaction, is composed of three parts--a general information section, a rating form section for the parent-child teaching period and the session, and a rating form section for the parent-child-examiner testing period. Information recorded for each section is described. Rating procedures and usability are discussed and illustrated. Preliminary analyses of data obtained from about 100 preschool children (1-1/2 to 5 years old) and their parents over a 3-year period indicate that the P-CIRP is equally appropriate for the diverse groups with which it has been used and that it does provide a sensitive measure of parent-child interaction. Appendixes present the Parent-Child Interaction Rating Procedure Code Definitions, and Rating Forms. (DB)

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DEVELOFMENT OF AN OBSERVATIONAL PROCEDURE FOR

ASBESSMENT OF PARENT-CHILD INTERACTION

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INTRODUCTION

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Information about parent-child interaction has several important implications for educators. Since parents are a child's first and most important teachers, knowledge of the ongoing educational process which they direct is helpful in planning the more formal educational programs of the school. Assessment of parent-child interaction can be helpful as a diagnostic tool in planning individualized instruction with the children and/or parents. Examination of the reciprocal influences between parent and child provides valuable clues to understanding teaching-learning and the development of behavior patterns. Finally, as programs are developed which involve parents as active members of the educational team, information about the parents' communication patterns and teaching styles can provide a valuable base for utilizing their potential contributions.

The need for developing objective, reliable, and valid measures of parentchild interaction became evident in the search for measures to be used in a study of differential socialization patterns of preschool children which is currently being conducted at the Michigan State University Institute for Family and Child Study. Consideration of the criteria of special importance for such instrumentation suggested the potential usefulness of a systematic observational rating procedure.

The unique demands of studying young children have traditionally suggested the use of direct observation. Lytton (1971) has summarized the history and development of objective observation studies from their beginning in the thirties. At that time, observations were typically of children's behavior in isolation; only after World War II did there appear systematic observations of parentchild relationships. Most studies, however, have employed either parental reports or summary observations of molar variables, both of which present obvious

problems of objectivity, reliability, and validity.

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Wright (1960), a pioneer in observational child study, has suggested that observational methods are ultimately the simplest way of studying child behavior. Two primary methodological advantages of observation are that neither planned arrangements nor appreciable time stands between the observer and his target phenomena.

A distinct disadvantage of many methodological procedures, however, including most observational methods, is their limitation to either quantitative or qualitative measures. Ideally, both should be included, with the additional requirement that the context of the indicated quantitative measures be retained for purposes of analysis.

A critical concern for developmental studies and therefore of particular importance for early childhood measures is comparability over extended periods of time. This need is best satisfied by procedures which are systematic and which impose both structure and objectivity on the observer, thus guaranteeing maximum comparability whether one or several observers are used during the course of a study.

Finally, a system should readily lend itself to quantitative analysis without losing its qualitative dimensions, particularly those relating to sequences of events and context of activities. At the same time, the multidimensionality which is a desirable aspect of complex behavioral observations should not stand in the way of straightforward analysis of any given dimension.

Since an observational rating schedule would appear to fulfill these various criteria, the feasibility of using such a procedure was investigated. The Parent-Child Interaction Rating Procedure (P-CIRP), focusing specifically on parentchild interaction with a structured teaching task, was developed for this purpose.

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INSTRUMENT DESCRIPTION

Task Procedures

In order to obtain as natural a sample of dyadic interaction as possible in a standardized setting, an unstructured task-oriented situation was selected. Criteria for the task included suitability for preschool children from diverse subcultural groups as well as a task level simple enough to be easily understood by the parents yet complex enough to present a challenging situation.

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The interaction setting is teaching the child simple two-dimensional sorting tasks. Two such tasks have been used with mothers, a toy sort and an eightblock sort, both adapted from the Hess-Shipman procedures (Hess, et al., 1968). A third task, a nine-block sort, was developed for use with the fathers, since each child is paired individually with each of his parents (Cunningham and Boger, 1969).

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Each task involves a three-part session. First, the examiner explains the task to the parent (with the child absent from the room), using a procedure specifically designed <u>not</u> to provide a teaching model. During the second part of the session, the examiner leaves the room and the parent teaches the child the designated task. Finally, the examiner returns to test the child's task performance. The parent, though instructed not to intervene during this time, remains physically present so the behavior of both the parent and the child can be rated. All three parts of each session are videotaped to enable detailed analysis of the complex phenomena of interest.

Observational Rating

The Parent-Child Interaction Rating Procedure (P-CIRP) was developed for assessment of the videotaped interaction. This instrument is composed of three

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parts--a general information section, a rating form section for the parent-child teaching period of the session, and a rating form section for the parent-childexaminer testing period. No observational rating is done of the portion of the session during which the examiner instructs the parent in the task procedures.

Information recorded for each section is described below. Descriptions of the various variable categories are given in Appendix 1.

General Information Section

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General information is recorded by the observer for the total session. Information included in this section is the following: length of demonstration period, length of teaching period, length of testing period, length of orientation, use of orienting statement, decision-maker for termination, and reason for termination.

Rating Form--Section 1

Section 1 is used for rating the parent and the child during the time that the parent teaches the child the designated task. Variables rated in this section are as follows:

- (1) <u>Verbal communication</u>--Verbalization, Verbal Fantasy, Voice Tone, Verbal Specificity, Time Orientation, Task Orientation, and Nature of Interference;
- (2) <u>Interaction process</u>--Feedback, Reward, Response, Initiation, Response
 Object, and Reinforcement;
- (3) <u>Nonverbal communication</u>--Affective Tone, Anxiety, Level of Involvement, Physical Behavior, Dependency (child only), and Inferred Motivation (child only);

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(4) Parental teaching (parent only) -- Concept and Teaching Method.

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Rating Form--Section 2

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Section 2 is used for rating the parent and the child during the time that the examiner tests the child on the task following the parent-child teaching session. The following variables are included in this section:

- (1) <u>Verbal communication</u>--Verbalization, Verbal Fantasy, Voice Tone, Task Orientation, and Verbal Receiver;
- (2) <u>Nonverbal communication</u>--Anxiety, Fhysical Behavior, Level of Involvement, Dependency (child only), and Inferred Motivation (child only);
- (3) <u>Intervention</u> (parent only)--Cue, Cue Directiveness, Cue Type, Defensiveness, Defensiveness Target, and Defensiveness Object.

RATING PROCEDURES

General Procedures and Format

The P-CIRP (Sections 1 and 2) uses a combination time- and event-sampling procedure, an approach which has several methodological advantages. The observed events are natural situations and thus possess an inherent validity not ordinarily gained in pure time sampling. Important behavioral events are captured although they may occur at very infrequent intervals, while the systematic sample of behavior recorded can be reasonably assumed to be representative. Finally, a continuity of behavior is obtained by this procedure which is important to the particular variables under consideration (Kerlinger, 1964).

An observation interval of twenty seconds was selected for the P-CIRP. This interval was chosen because it is short enough to include a reasonable recordable unit of behavior, yet long enough to observe and record a meaningful unit. Delineation of intervals for videotape rating is faciltated by attaching an automatic signal tone to the videotape unit for recording purposes.

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During each twenty-second interval, the occurrence of a particular behavior is recorded. Allowance is made for recording up to two behaviors for several sets of scales--verbal communication (Verbalization, Verbal Fantasy, Voice Tone, Verbal Specificity, Time Orientation, Task Orientation, Nature of Interference, and Verbal Receiver), interaction (Feedback, Reward, Response, Initiation, Response Object, and Reinforcement), parental teaching(Concept, Teaching Method, Cue, Cue Directiveness, Cue Type, Defensiveness, Defensiveness Target, and Defensiveness Object), and Inferred Motivation. On all others, the single category best characterizing that point in time is noted.

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The formats for the frames (representing single intervals) for the parent and the child on each section are shown in Figures 1 through 4. In addition, semple rating sheets for all three sections of the P-CIRP are attached in Appendix 2.

Both sections <u>must</u> contain a code for each interval in each code position. If no specific code is applicable, an "X" is coded in that position. This use of a specific designation rather than leaving spaces blank if no specific code is applicable is important as a means of obtaining the most complete and reliable data possible. Thus, it is not possible for an observer to overlook a behavior which should be recorded because of misinterpretation of a space in which no code appears.

Each interval is rated as an individual unit. Therefore, impressions of an individual's behavior at a previous time do not influence the ratings nade for any subsequent interval except insofar as the context of a preceding interval must be considered for adequate interpretation of a unit of behavior. The observer's frame of reference is described as external to the process. That is, each event is viewed in terms of its theoretical properties from the "generalized other" perspective defined by Bales (1951). The time reference, of course, is

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Verbal Code #1	Verbal Code #2	Feedback Code #1 Reward Code #1	Response Code #1 Initiation Code #1	Re Ol #1	esponse oject Code l	Reinforce- ment Code #1	
Fantasy Code #1	Fantasy Code #2	Feedback Code #2/ Roward Code #2	Response Code #2/ Initiation Code #2	Re Ol Ce	esponse oject ode #2	Reinforce- ment Code #2	
Voice Tone Code #1	Voice Tone Code #2	Affective Tone Code Anxiety Code			Level Involv	of vement Code	
Specificity	Specificity						
Code #1	Code #2				Phy Ber	avior	
Time Orientation	Time Orientation				Çod	e	
Code #1	Code #2	Concept Code #1			Teaching Method		
Task Orientation Code #1	Task Orientation Code #2				Code #1		
Nature of Interference Code #1	Nature of Interference Code #2	Concept Code #2			Teaching Method Code #2		

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Fig. 1. Section 1--Parent Observation: Parent-Child Interaction Rating Procedur

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Rating Frame

Verbal Code #1	Verbal Code #2	Feedback Code #1/ Reward Code #1	Response Code #1/ Initiation Code #1		Response Object Code #1	Reinforce- ment Code #1	
Fantasy Code #1	Fantasy Code #2	Feedback Code #2/ Reward Code #2	Response Code #2/ Initiation Code #2		Response Object Code #2	Reinforce- ment Code #2	
Voice one Code #1	Voice one Code #2	Affective Tone Code			Level (Involv	of ement Code	
Specificity Code #1	Specificity Code #2	Anxiety Code			Physical Behavior		
Time Orientation	Time Orientation				Code		
Task Orientation Code #1	Task Orientation Code #2	Dependency Code			Inferred Code #1	Motivation	
Nature of Interference Code #1	Nature of Interference Code #2	Dependency Code			Inferred : Code #2	Motivation	

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Fig. 2. Section 1--Child Observation: Parent-Child Interaction Rating Procedure

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Verbal Code #1 Fantasy Code #1	Verbal Code #2 Fantasy Code #2	Anx Cod	Anxiety Code		ical vior	Level of Involvement Code	
Voice Tone Code #1	Voice Tone Code #2	Cue Code ∦1	Cue Directiveness Code #1 Cue Type		Defen- sive- ness Code	Defensiveness Target Code #1 Defensiveness	
Task Orientation Code #1	Task Orientation Code #2	Cue	Code #1 Cue Directiv	veness	#1 Defen- sive-	Object Code #1 Defensiveness Target Code #2	
Verbal Receiver Code #1	Verbal Receiver Code #2	₩2	Cue Type Code #2 Code #2		ness Code #2	Defensiveness Object Code #2	

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Fig. 3. Section 2--Parent Observation: Parent-Cuild Interaction Rating Procedur

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Verbal Code #1	Verbal Code #2		Physical	Level of	
Fantasy Code #1	Fantasy Code #2	Anxiety Code	Behavior Code	Involve- ment Code	
Voice Tone Code #1	Voice Tone Code #2				
Task Orientation Code #1	Task Orientation Code #2	Dependency Code	Interred Motivation Code #1		
Verbal Receiver Code #1	Verbal Receiver Code #2		Inferrod Motivation Code #2		

Format

Fig. 4. Section 2--Child Observation: Parent-Child Interaction Rating Procedur

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limited to the immediate context.

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Several viewings of each tape are necessary for completing the ratings. It is suggested that one rater be used to rate an entire tape. This is important for gaining the most accurate and complete information with maximum efficiency in the complex situation presented.

Rater Training Procedures

Initial training of observers in the use of the P-CIRP is accomplished with the aid of videotaped interaction segments. The training program includes extensive practice in using the rating schedule, clarification of variable categories and rating procedures through group discussion, and resolution of discrepancies among observers.

Following a minimum of one week's practice with the P-CIRP, observer reliability is determined with the use of videotapes not previously viewed by that observer. When possible, reliability is established concurrently with more than one observer. This guards against the possibility of gradual shifts in interpretation over time, an event which would tend to increase discrepancies in the long run even though amount of disagreement at any given time would be within the limits of tolerated error. After reliability is established, each observer devotes several days to additional practice with the P-CIRP before actual collection of data is attempted.

Continued quality control of ratining is maintained by two procedures. Regular group discussion sessions are held with all raters working together in order to clarify unusual situations or new questions which may have been encountered. In addition, periodic checks are made of intra- and interobserver reliability. Occasional written quizzes are also given to raters.

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USABILITY

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Reliability

Interobserver reliability is established by two independent observers simultaneously recording the behaviors of the same person in the same intervals on their respective recording forms. Intraobserver reliability is established by a single observer relating a previously observed tape.

Two methods of computing reliability are used, one based on total blanks and the other based on total recorded positions. Each type of reliability is computed for both parent and child observations for each section of the instrument and also for each separate scale. Minimum suggested reliability indices are given in Table 1. These minimum reliability rates must be attained conjointly for each observer on an observation of at least ten consecutive minutes. Reliability must be established separately for each section.

For each method, points for determining total-instrument reliability are assigned to each variable category position as shown in Figure 5. Total points obtained are computed for each complete observation. An index of percentage reliability is derived by dividing agreements (number of points) in each case by the total possible points for that method.

Computation of observer reliability by the first procedure (total blanks) credits the observers with agreements for those instances on which they agree that no recordable behavior occurred (i.e., both recorded an "X" for that category of that interval). Formulas used for figuring total-instrument reliability by this method are as follows:

Section 1--Parent Observation:

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% reliability = Agreements (Number of points) Number of frames x 34

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TABLE 1

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Minimum Suggested Rater Reliability Indices for Parent-Child Interaction Rating Procedure

Method	Type of Re	liability
	Interobserver	Intraobser
	Entire S	ection
Total Blanks	.85	06.
Total Recorded Positions	.65	.75
	Individua	il Scales
Total Elanks	.80	.85
Total Recorded Positions	9 9.	.70
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Fig. 5. Assignment of Points for F-CIRF Rater Reliability.

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Section 1--Child Observation:

% reliability = Agreements (Number of points) Number of frames x 33

Section 2--Parent Observation:

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% reliability = Agreements (Number of points) Number of frames x 21

Section 2--Child Observation:

% reliability = <u>Agreements (Number of points)</u> Number of frames :: 16

Individual scale reliability is figured as follows:

Sections 1 and 2--Parent and Child Observations:

% reliability = Agreements (Number of frames) Number of intervals in total observation

Computation of observer reliability by the second method (total recorded positions) considers only those positions in which one or both observers record something other than "X." The formula for figuring total-instrument reliability by this method is as follows:

Sections 1 and 2--Parent and Child Observations:

Agreements (Number of points) % reliability = 7 Agreements plus disagreements (Number of points possible for positions in which either observer recorded any code)

Individual scale reliability is figured as follows:

Sections 1 and 2--Parent and Child Observations:

Agreements (Number of frames) % reliability = Agreements plus disagreements (Number of frames in which either observer recorded any code)

Validity

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No validity indices for the P-CIRP are available at this time. However, several approaches to the assessment of this psychometric consideration have been used to provide support for a satisfactory indication of instrument validity.

First, a measure of content validity was achieved. Construction of the P-CIRP was based on theoretical contributions of social, developmental, and educational psychology. Freliminary testing of the procedure was conducted in field settings throughout the early stages of its development.

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Another factor by which the validity of the P-CIRP may be indicated is the use of scales from previous'y validated instruments. The Verbalization scale is based on Bales' (1951) Interaction Process Analysis, which has been widely used over a period of years. The Initiation scale is adapted from a procedure developed by Moustakas, Sigel, and Schalock (1956); the Time Orientation scale is based on the work of Kluckhohn (1961); Verbal Fantasy draws from a measure developed by Banta (1970); and Verbal Specificity is based on the work of Hess, Shipman, et al. (1960). Several P-CIRP scales (Affective Tone, Level of Involvement, Physical Behavior, and Inferred Motivation) are also based on scales from the Observation of Socialization Behavior (Boger and Cunningham, 1969), a structured observational rating procedure using a format very similar to the P-CIRP.

Additional instrument evaluation procedures, including factor analysis and measures of concurrent validity, are also planned. The investigations performed thus far, however, provide favorable indications of the validity of the P-CIRP for the assessment of parent-child interaction in a task-oriented dyadic setting.

Analysis

Since the P-CIRP covers a relatively wide range of behaviors, several different approaches to analysis are possible. Both individual and dyad scores can be

obtained on either an absolute or a ratio scale. Either individual variable scores or indices derived from combinations of variables can be used for quantitative and qualitative analysis of the interaction. A repeated measures organization can also be used in determining variable scores to investigate the process as well as the content of interaction.

Both general and specific kinds of information may be determined with the P-CIRP. Some examples of specific types of questions are:

Type

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- (1) Proportion of time for general behavior
- (2) Proportion of time for dimension of behavior
- (3) Proportion of general behavior for dimension of behavior
- (4) Proportion of time for specific behavior
- (5) Relative proportion of time for specific behavior
- (6) Relative proportion of dimension of behavior for specific behavior
- (7) Proportion of time for general behavior in specific context
- (8) Proportion of time for dimension of behavior in specific context
- (9) Proportion of time for specific behavior in specific context
- of behavior for specific behavior in specific context

Example

- (1) What proportion of the time does the parent engage in verbalization:
- (2) What proportion of the time does the parent engage in asking questions?
- (3) What proportion of the parent's verbalization is the asking of questions?
- (4) What proportion of the time does the parent ask information-seeking questi~ns?

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- (5) What proportion of the parent's verbalization is for questions which are information-seeking?
- (6) Of all questions asked by the parent, what proportion are informationseeking?
- (7) What proportion of the time that the parent is highly anxious does he engage in verbalization?
- (8) What proportion of the time that the parent is highly anxious does he ask questions?
- (9) What proportion of the time that the parent is highly anxious does he ask information-seeking questions?
- (10) Relative proportion of dimension (10) What proportion of the questions asked by the parent while he is highly anxious are information-seeking?

Each of these questions may be asked in relation to either the parent or the child or for one in relation to the other. Examples of the latter are:

Type

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- Proportion of time for one person's general behavior in relation to other person's behavior
- (2) Proportion of time for dimension of one person's behavior in relation to other person's behavior
- (3) Proportion of time for specific behavior in relation to other person's behavior
- (4) Description of one person's behavior in relation to general behavior of other person
- (5) Description of one person's behavior in relation to dimension of other person's behavior
- (6) Description of one person's behavior in relation to specific behavior of other person

Example

- (1) What proportion of time that the child is engaged in verbalization is the parent highly anxious?
- (2) What proportion of time that the child is asking questions is the parent highly anxious?
- (3) What proportion of time that the child is asking information-seeking questions is the parent highly anxious?
- (4) What is the parent's average level of anxiety during the time the child is engaged in verbalization?
- (5) What is the parent's average level of anxiety during the time the child is asking questions?

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(6) What is the parent's average level of anxiety during the time the child is asking information-seeking questions?

Process-oriented questions may also be asked with P-CIRP data. Some specific examples are:

Type

- (1) Process for dimension of behavior
- (2) Process for specific behavior
- (3) Process for dimension of one person's behavior in relation to other person's behavior

Examplo

- (1) What kind of verbalization by the parent most typically follows his asking a question?
- (2) What kind of verbalization by the parent most typically follows his asking an information-seeking question?
- (3) What kind of verbalization by the child most typically follows a question by the parent?

<u>Type</u>

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Example

(4) Process for one person's specific (4) What kind of verbalization by the child behavior in relation to other most typically follows an informationperson's behavior seeking question by the parent?

General behavioral profiles may also be identified, either for specific variables (e.g., verbalization) or for combinations of variables (e.g., general styles of interaction). Any one of the questions might, of course, be asked in terms of a specified group rather than an individual subject. The particular set of scores to be used in any case is determined by the objectives or hypotheses of that study.

Applicability

The P-CIRP has been used with nearly one hundred preschool children and their parents over a three-year period. The children have ranged in age from 2 1/2 to 5 years and have represented a range of socioeconomic and ethnic groups. In addition to descriptions of parent-child interaction variables, comparisons have been made between these variables and other dimensions of the children's behavior (e.g., peer-group interaction, individual predispositions to behavior).

Preliminary analyses of the data obtained thus far with the P-CIRP indicate that it is equally appropriate for the diverse groups with which it has been used and that it does in fact provide a sensitive measure of parent-child interaction. The potential flexibility of its use suggests an even broader application than has currently been attempted.

A manual for the P-CIRP is presently being prepared in accordance with the APA-AERA-NCME <u>Standards for Educational and Psychological Tests and Manuals</u>. Copies of the preliminary manual are currently available from the authors.

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APPENDIX 1

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Parent-Child Interaction Rating Procedure

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Code Definitions

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PARENT-CHILD INTERACTION RATING PROCEDURE

Code Definitions

Description of information included in the general information section is as follows: <u>Length of Demonstration Section</u> = Number of minutes in first section of session, during which the examiner teaches the task to the parent

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- Length of Teaching Section = Number of minutes in second section of session, during which the parent teaches the task to the child
- Length of Testing Section = Number of minutes in third section of session, during which the examiner tests the child on the task in the presence of the parent
- Length of Orientation = Number of minutes in the teaching section (beginning at the time the child enters the room and rating of Section II begins) until the parent calls for the first object placement by the child
- <u>Use of Orienting Statement</u> = Whether or not the parent gives a statement to the child explaining the general nature of the situation and the task to be learned
- <u>Decision for Termination</u> = Who makes the decision to terminate the teaching section of the session (parent, child, or examiner)

Reason for Termination = Reason given for ending the teaching section of the session (e.g., time limit, child learns task, etc.)

The categories for each code used in Sections I and II of the rating procedure and descriptions of them are as follows:

Verbalization

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SL = Shows solidarity; raises other's status; gives help or reward
TR = Tension release; jokes; laughs; shows satisfaction
AG = Agrees; shows passive acceptance; understands; concurs; complies
SU = Gives suggestions or direction, implying autonomy for others
OP = Gives opinion, evaluation or analysis; expresses feeling or wish
OR = Gives orientation or information; repeats; clarifies; confirms
AR = Asks for orientation, information, repetition, confirmation
AP = Asks for opinion, evaluation, analysis, expression of feelings
AS = Asks for suggestion, direction, possible ways of action
DS = Disagrees; shows passive rejection or formality; withholds help
ST = Shows tension; asks for help; withdraws "out of field"
AN = Shows antagonism; deflates other's status; defends or asserts self
MM = Mumbling

X - No verbalization

Fantasy

- F = Fantasy varbalization
- NF = Nonfantasy verbalization

Voice Tone

- + = Positive affect conveyed by voice tone
- 0 = Neutral voice tone; no affect conveyed
- - Negative affect conveyed by voice tone

<u>Specificity</u>

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- G = Global verbalization; no specific labels
- S = Specific verbalization; includes labels and/or explicit directions

Time Orientation

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- PA = Past reference; refers to anything which occurred in the past (even in present situation)
- PR Present reference; reference to immediate situation or task
- FU = Future reference; refers to anything to occur in the future (even in present situation)

Task Orientation

- T = Task-oriented verbalization; refers to performance of task presented in situation
- NT = Non-task-oriented verbalization; refers to situation or experience other than the task presented or to specific avoidance of that task

Nature of Interference

O = Outside interference; not initiated by either parent or child
Pm = Parent-initiated diversion involving non-task use of materials
Pe = Parent-initiated diversion which focuses on immediate environment
Pn = Parent-initiated diversion which focuses on nonsituational factors
Cm = Child-initiated diversion which involves non-task use of materials
Ce = Child-initiated diversion which focuses on immediate environment
Cn = Child-initiated diversion which focuses on immediate environment
Cn = Child-initiated diversion which focuses on immediate environment
Cn = Child-initiated diversion which focuses on nonsituational factors
X = No interference; task-related verbalization

Verbal Receiver

- C = Child as intended receiver of verbalization
- P = Parent as intended receiver of verbalization
- E = Examiner as intended receiver of verbalization
- G = Group-directed verbalization (undifferentiated receiver)

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- C = Covert acceptance or rejection of immediately preceding communication of other person
- X = No immediately preceding communication by other person or no response to such a communication (used with Response codes D, I, N, and O)

Reward

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- p = Praise (used only with Feedback codes O and C)
- c = Criticism (used only with Weedback codes 0 and C)
- x = No praise or criticism given (implied with Feedback code X)

Response

- D = Failure to respond because the other did not allow it
- I = Ignoral; failure to respond to communication by other person, even though there is opportunity to do so

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- N = No feedback given because there is no immediately preceding communication by the other person
- A = Acceptance of communication of other person
- R = Rejection of communication of other person
- O = Ongoing interaction which is continued from previous interval

Initiation

- u = Ungualified power assertion; attempt to make use of jurisdiction by physical punishment, isolation. insistence upon a specified behavior. etc.
- q = Oualified power assertion: attempt to make use of jurisdiction by punishment, isolation, direction. or insistence. but with the addition of a reason or a cushion or both to this exertion of authority
- r = Bargain, appeal, or suggestion for behavior with offer of a reward (which may be tangible or intangible) for compliance; bribe
- c = Suggestion of action in which the other person is given a choice of compliance

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- n = Simple command or request for response which does not assert power or offer a choice or reward for compliance; neutral initiation (used with 0 if continuation of communication from previous interval)
- f = Failure to continue interaction by initiation of new idea or direction
 (implied with Response codes D and with O if ongoing to next interval;
 cannot be used with Response code N)

Response Object

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- P = Acceptance or rejection of the person as an individual
- B = Acceptance or rejection of the behavior or performance of the other person
- X = No response given (used with Response codes D, I, N, and O)

Reinforcement

- + = Correct or appropriate response to behavior
- = Incorrect or inappropriate response to behavior
- X = No response given (used with Response codes D, I, N, and O)

Affective Tone

- + = Positive social-emotional tone; conveys affection for other person
- 0 = Neutral; no indicated affect
- = Negative social-emotional tone; conveys lack of affection or annoyance with other person

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Level of Involvement

- 1 = Extremely involved in situation or task
- 2 = Moderate or average level of involvement with situation or task
- 3 = Passively involved with situation or task; "serving time" in the situation

Anxiety

- L = Low anxiety level; no apparent anxiety shown
- M = Moderate anxiety level; some indication of anxiety expressed
- H = High anxiety level; obvious tension or discomfort in situation

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Physical Behavior

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NP = Negative physical behavior; behavior which is not socially acceptable and which involves physical contact between the subject and some other person or object (e.g. hitting, pushing) ** 34 Ju

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- SP = Social physical behavior; behavior which is socially acceptable and/or conveys affection and which involves physical contact between the subject and some other person; intentional physical contact conveying affection for an object (e.g. patting, holding hands)
- AP = Approach gesture; behavior which is socially acceptable or positive in connotation and which does not involve actual physical contact between the subject and another person or object (e.g. beckoning)
- DF = Defensive posture; behavior which is not socially acceptable or is negative in connectation and which does not involve actual physical contact between the subject and another person or object (e.g. shaking fist)
- NM Neutral motion; physical behavior which does not convey either positive or negative connotation but which is intentional communicative act (e.g. head nod)
- X = No nonverbal (physical) behavior

Concept

- NC = Introduction of new concept in teaching (task-oriented) behavior; may be verbal and/or nonverbal
- AP = Introduction of a new approach to teaching the same concept; may be verbal and/or nonverbal but must apply to teaching (task-oriented) behavior
- AS = Focus on a different aspect of the same concept; may be verbal and/or nonverbal but must apply to teaching (task-oriented) behavior
- ON = Ongoing method for teaching the same concept; no change in focus
- GO = General orientation to learning task or concept(s) to be presented
- GS = General summary of learning task or concept(s) to be presented
- X = No task-oriented (teaching) behavior present (used only with Task Orientation code NT)

Teaching Method

- D = Demonstration only; nonverbal approach used
- E = Explanation only; approach used is verbal only
- I = Illustration of concept; both verbal and nonverbal teaching methods used

X = No task-oriented (teaching) behavior OR Task-oriented (teaching) behavior with ON by parent because child is doing task and parent does nothing during interval

Dependency

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- 1 = High level of psychological dependency shown
- 2 = Some psychological dependency shown
- 3 = No psychological dependency shown

Inferred Motivation

NO = Innovativeness

- ND = Independence
- AG = Aggression
- IM = Imitation
- AT = Attention-seeking
- BO = Boasting

FE = Fear

X = No apparent inferred motivation

Cue

C = Cuing occurs by parent to child concerning performance of task X = No cuing by parent to child concerning performance of task

Cue Directiveness

- D = Direct cuing to child by parent
- I = Indirect cuing to child by parent

X = No cuing occurs (covered by Cue code X)

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Cue Type

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V = Verbal cue given (may be used alone or in combination with NV)
NV = Nonverbal cue given (may be used alone or in combination with V)
X = No cuing occurs (covered by Cue code X)

<u>Defensiveness</u>

- D = Defensive statement made by parent concerning situation
- X = No defensive behavior by parent

Defensiveness Target

C = Child is target of parent's defensive statement

- E = Examiner is target of parent's defensive statement
- X = No defensive statement given (covered by Defensiveness code X)

Defensiveness Object

Ca = Child designated as being at fault, with blame directed to his abilities

- Co = Child designated as being at fault, with blame directed to reasons other than his abilities
- Pa = Parent designated as being at fault, with blame directed to his abilities (e.g. teaching effectiveness)
- Po = Parent designated as being at fault, with blame directed to reasons other than his abilities
- Se = Situation designated as being at fault, with emphasis on environment or immediate circumstances
- St = Situation designated as being at fault, with emphasis on the task per se
- X = No defensive statement given (covered by Defensiveness code X)

APPENDIX 2

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Parent-Child Interaction Rating Procedure

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Rating Forms

PARENT-CHILD INTERACTION RATING PROCEDURE

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Child	Task							
Child ID	Date							
Child Peer Code								
Race Sex SES	Examiner							
Child's Age Years Months Days								
Child's Previous Preschool Experience	_							
Adult								
Relation to Child								
General Information								
Length of demonstration section	<u> </u>							
Length of teaching section								
Length of testing section								
Length of orientation								
Use of orienting statement Yes No								
Decision for termination Parent Child Example	miner							
Reason for termination	میں اور							
Notes								

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PARENT-CHILD INTERACTION RATING PROCEDURE -Section 1

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 Child Child ID Child Boon Code 	Adult Relation t	o Child	Date
- '20" M/F		120" M/E	Observer C
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F = HF = HF = H $+ O - + O - C = C = DI = C = C$ $T = NT = T = NT = C = C = C = C = C = C = C = C = C =$	F NF F NF H $+0-+0-$ $T NT T NT$ $P E G P E G$	F NF F NF H $+ 0 - + 0 - C D I C E$ $T NT T NT C I C E$ $C E G C E G V N$	$ \frac{L}{M} $ F NF F NF H +0-+0- T NT T NT PEG PEG $ 34$

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