



The Children's Total Exposure to Persistent Pesticides and Other Persistent Organic Pollutants (CTEPP) Study

Videotaping Child Activities

Battelle

Columbus, OH 43201 Contract No. 68-D-99-011

Standard Operating Procedure

CTEPP-SOP-2.23

Title: Videotaping Child Activities

Source: Battelle

U.S. Environmental Protection Agency
Office of Research and Development
Human Exposure & Atmospheric Sciences Division
Exposure Measurements & Analysis Branch

Notice: The U.S. Environmental Protection Agency (EPA), through its Office of Research and Development (ORD), partially funded and collaborated in the research described here. This protocol is part of the Quality Systems Implementation Plan (QSIP) that was reviewed by the EPA and approved for use in this demonstration/scoping study. Mention of trade names or commercial products does not constitute endorsement or recommendation by EPA for use.

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STANDARD OPERATING PROCEDURE (SOP) FOR VIDEOTAPING CHILD ACTIVITIES

Prepared by:	Date:
Reviewed by:	Date:
Approved by:	Date:
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1.0 Scope and Applicability

This standard operating procedure (SOP) describes the method for videotaping a preschool child at a home.

2.0 Summary of Method

The CTEPP main study will collect multimedia samples and questionnaire data at the homes of participants (adults and children) during 48-hr sampling periods. Vide otaping the activities of 10% of these children was added to the study to supplement the Child Activity Diaries and other questionnaires.

After obtaining informed consent for participating in the CTEPP main study, project staff (Battelle 1) will obtain a separate informed consent for videotaping the participating children's activities at home. Up to 26 preschool children will be videotaped in homes in Ohio (OH) for about 2-3 hr during the 48-hr sampling periods.

3.0 Definition

CTEPP - A Pilot Study of Children's Total Exposure to Persistent Pesticides and Other Persistent Organic Pollutants.

Battelle 1 - Battelle staff involved in the CTEPP main study.

Battelle 2 - Battelle staff involved in the Videotaping Component of the CTEPP study.

4.0 Cautions

A separate informed consent must be obtained from the parent to videotape the activity of their child at home. Field staff should pay special attention to protecting the study participant's identity when taping the child's activities (avoid taping street names, house address, etc.).

5.0 Responsibilities

Battelle 2 staff are responsible for videotaping the activity of up to 26 individual preschool children for about 2-3 hr at homes in OH. Informed consent is obtained by the Battelle 1 field team.

6.0 Apparatus and Materials

- 6.1 Materials
- 6.1.1 Two digital 8 camcorders and accessories

7.0 Procedures

- 7.1 Recruitment of children.
- 7.1.1 To avoid increasing the burden of the recruitment effort for the CTEPP main study, recruitment for the videotaping component of the study will be done after the subjects have agreed to participate in the CTEPP main study. After obtaining the informed consent for participating in the field sampling activities from the parents, Battelle 1 personnel attempt to obtain a separate informed consent for videotaping the participating children's activities at homes.
- 7.1.2 All participating subjects at homes will be asked to participate in the videotaping study. Up to 26 children will be videotaped for about 2-3 hr at their homes in OH during the 48-hr sampling periods.
- 7.1.3 Battelle 1 staff will arrange the schedules for field sampling and videotaping with the participating parents. NOTE: When scheduling the appointment for videotaping, try to avoid the child's nap time. Battelle 2 staff will videotape the selected children according to the schedules.
- 7.2 Battelle 1 staff will arrange for Battelle 2 staff to vide otape selected children. Three (Battelle 2) staff members will attend and complete a Video taping Demonstration Workshop. The EPA will conduct this workshop at the Battelle facility in Columbus, Ohio (before the initiation of the Ohio field sampling component of the CTEPP study). One Battelle 2 staff member will visit the selected home(s) with Battelle 1 staff on Day 1 of the sampling period. At that time, Battelle 2 staff will introduce themselves to the appropriate parties (i.e., parent, child) and discuss how the child will be videotaped at the home. Battelle 2 staff will ask where taping of the child is not permitted. Battelle 2 staff simulate video taping the child for 30 minutes on this initial visit (no video taping at this time). This helps the child become more comfortable with the cameraper son and the videotaping procedure.
- 7.3 Next, the child's activities will be videotaped for 2-3 hr during this 48-hr sampling period.

- 7.4 Perform equipment checks on the camcorder and batteries to assure that they are functioning properly. NOTE: The digital 8 camcorder will record only one hour of videotape on a 120 minute Hi-8mm tape and requires only one battery during the session.
- 7.5 Before entering the subject's home, put on disposable blue booties. Take the booties off when filming outside the home. Throughout the videotaping period, the Battelle 2 staff should be as quiet as possible and keep a low profile. Videotape the child, when he or she is awake, for 2-3 hr non-continuous hours during a three-hour period. Summarize the child's locations and activities (e.g. living room, eating) approximately every 15 minutes into the mini tape recorder while filming the child (the recorder is very voice sensitive and will pick up soft speech or whispers). If the child conducts the same activity in the same location for more than 30 minutes, stop taping [if there is enough time] until the child changes their activity.
- 7.6 Videotape the child with the camcorder using zoom whenever possible and concentrate on filming the child's hand-to-mouth, -surface, -object, and -body contacts.
- 7.7 Do not videotape the child at inappropriate times (changing clothes, bathing, using the restroom) or in off limit areas designated by parents.
- 7.8 After videotaping is complete, switch the red record tab to non-record on the two cassette tapes and place them back into the appropriate cassette covers.
- 7.9 After leaving the residence, record the information from the voice recorder onto the Child Information and Activity Profile Sheets (see p 7-8). Attach the tape labels to the videotapes. Write the date of videotaping, and the child's identification number and first name onto the videotapes. On the cassette cover, write the date and time of videotaping, duration of videotaping, site location, age, gender, and the child's identification number and first name.
- 7.10 Do not leave the video cassettes and equipment in the car if the weather is hot (i.e., $> 80^{\circ}$ F).

8.0 Records

Site location, date/time of videotaping, duration of videotaping, age and gender of children, identification numbers, and activity pattern information are recorded onto

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the Child Information and Activity Profile Sheets and on the videotapes and cassette covers. The children are identified exclusively by their participate identification numbers on the Child Information and Activity Profile Sheets and videotapes. Videotapes are confidential and will be stored in a locked room and cabinet. At the end of the study, the videotapes are archived by EPA for three years, then destroyed.

9.0 Quality Control and Quality Assurance

- 9.1 Camcorder and equipment checks (see 7.4)
- 9.2 Data and records management (see 8.0)

10.0 Reference

- 10.1 Reed, K. 1998. Quantification of children's hand and mouthing activities through a videotaping methodology. Bell & Howard Company, pp. 237.
- Wilson, N.K., G.F. Evans, W.C. Nelson, R.G. Lewis, T. McCurdy, E. Cohen-Hubal, Maurice Berry, Jim Quackenboss, and C. Stevens. A pilot study of children's total exposure to persistent pesticides and other persistent organic pollutants (CTEPP Study Design, NERL/HEAB, February 24, 2000).
- 10.3 Zartarian, V., J. Streicker, A. Rivera, C. Cornejo, S. Molina, O. Valadez, and J. Leckie. 1995. A pilot study to collect micro-activity data of two- to four-year-old farm labor children in Salinas Valley, California. *Journal of Exposure Analysis and Environmental Epidemiology*. 5(1): 21-34. 7.1

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CHILD INFORMATION SHEET

Arrival: Date	Time	am / pm
Departure: Date	Time	am / pm
Date of Videotaping		
Site Location (State/County)		
Child ID		{Attach the ID Label here}
Time of Videotaping		Begin Time:
		End Time:
Duration of Videotaping		
Age		
Gender		
Comments:		
Battelle Staff Signature:		Date:

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ACTIVITY PROFILE SHEET

Time Interval	Actual Time	Activity Patterns {When, Where, and What Activity}
15		
30		
45		
60		
75		
90		
105		
120		

60			
75			
90			
105			
120			
Comments	S:		
Battelle staf	f signature:	Date:	
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