CCEERC: Using Data from the EHS Research and Evaluation Study

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Shawn Marie Pelak, University of Michigan

Workshop Presented at Head Start’s 7th National Research Conference
Research Connections
www.childcareresearch.org

Promote

- High quality research in child care and early education
- Research-based policymaking
How

- Foster dialogue and collaboration
- Provide tools to improve research
- Disseminate rigorous findings to inform policy
- www.childcareresearch.org
- Technical assistance and collaboration
A searchable, relational database of

- Nearly 4,000 references
  - 250+ scholarly journals
  - 270 web sites
- Original research reports
- Data collection instruments and measures
- Peer reviewed articles
- Full text of resources
Resource Database Includes

- Citation information
- Subject terms and topic classification
- Description
- Abstract
- In-depth descriptions of original research reports
- Country
- State
As well as...

- Tools to help evaluate the quality of research and place it in a policy context
- Content related to research—e.g., media coverage and book reviews
- Information about federal, state and tribal policies and programs
- 50-state data tool to compare policies and demographics across states
- Data sets for secondary analysis
The Early Head Start Program

- Two-generation program
- Child development with parenting education and self-sufficiency
- Follows the Head Start Program Performance Standards
- Program models fit community needs—center-based, home-based or mixed approach
- Any program can apply to become a Head Start program; most are affiliated with Head Start programs to begin with
- Over 700 programs serving about 62,000 children
The Early Head Start Research and Evaluation Project

- Began in 1995; reports to Congress in 2001 and 2002
- Led by Mathematica Policy Research and National Center for Children and Families (at Columbia University)
- Local researchers in 15 universities involved
- In 17 Early Head Start programs—about 1/3 center-based, 1/3 home-based, and 1/3 mixed-approach
- Followed 3,001 children and families from enrollment in program until child age 3
- Used random assignment—program and control group
Research Conducted by Early Head Start Research Consortium

The Consortium consists of representatives from 17 programs participating in the evaluation, 15 local research teams, the evaluation contractors, and ACF/ACYF.

Research institutions in the Consortium (and principal researchers) include ACF (Rachel Chazan Cohen, Judith Jerald, Esther Kresh, Helen Raikes, and Louisa Tarullo); Catholic University of America (Michaela Farber, Lynn Milgram Mayer, Harriet Liebow, Christine Sabatino, Nancy Taylor, Elizabeth Timberlake, and Shavaun Wall); Columbia University (Lisa Berlin, Christy Brady-Smith, Jeannette Brooks-Gunn, and Alison Sidle Fuligni); Harvard University (Catherine Ayoub, Barbara Alexander Pan, and Catherine Snow); Iowa State University (Dee Draper, Gayle Luze, Susan McBride, Carla Peterson); Mathematica Policy Research (Kimberly Boller, Ellen Eliason Kisker, John M. Love, Diane Paulsell, Christine Ross, Peter Schochet, Cheri Vogel, and Welmoet van Kammen); Medical University of South Carolina (Richard Faldowski, Gui-Young Hong, and Susan Pickrel); Michigan State University (Hiram Fitzgerald, Tom Reischl, and Rachel Schiffman); New York University (Mark Spellmann and Catherine Tamis-LeMonda); University of Arkansas (Robert Bradley, Mark Swanson, and Leanne Whiteside-Mansell); University of California, Los Angeles (Carollee Howes and Claire Hamilton); University of Colorado Health Sciences Center (Robert Emde, Jon Korfmacher, JoAnn Robinson, Paul Spicer, and Norman Watt); University of Kansas (Jane Atwater, Judith Carta, and Jean Ann Summers); University of Missouri-Columbia (Mark Fine, Jean Ispa, and Kathy Thornburg); University of Pittsburgh (Carol McAllister, Beth Green, and Robert McCall); University of Washington School of Education (Eduardo Armijo and Joseph Stowitschek); University of Washington School of Nursing (Kathryn Barnard and Susan Spieker); and Utah State University (Lisa Boyce and Lori Roggman).
Early Head Start Research Sites

- Brattleboro, VT
- New York, NY
- Pittsburgh, PA
- Kansas City, KS
- Kansas City, MO
- Jackson, MI
- McKenzie, TN
- Kansas City, KS
- Logan, UT (2 programs)
- McEnery, CA
- Sunnyside, WA
- Kent, WA
- Venice, CA
- Sunnyside, WA
- Sunnyside, WA
- Russellville, AR
- Louisville, KY
- Louisville, KY
- Marshalltown, IA
- Pikesville, MD
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Many Assessments Used in the Project

- Baseline Demographic Data
- Family service use data 6, 15, and 26 months after enrollment (both program and control)
- Child and family data collected when children were 14, 24, and 36 months old
  - Parent interview
  - Videotaped observations of parent-child interaction
  - Child assessments
  - Interviewer observations
Additional Assessments (Most Available Later)

- Father Data at 24 and 36 Months (n = approx. 650)
- Father Interview
- Videotaped Observations of Father-Child Interactions
- Qualitative Interviews
- Child Care Observations at 14, 24, and 36 Months
Findings

♦ Early Head Start was broadly effective with modest impacts across a wide array of child and parent outcomes.

♦ Effects were found in 27 program and family subgroups.

♦ In several subgroups, impacts were larger, demonstrating potential of the program for the future.

♦ Child Care is Relevant: Early Head Start increased the probability of children receiving child care and increased the probability of children receiving good quality center-based care.
CCEE ERC Public Use File

Constructed variables used in Interim and Final Reports (source data available later)

♦ Baseline Data: Health; Family Composition; Demographics; Employment; Dunst Family Resource Scale; Depression (in 8 sites).

♦ Service Use Data: Parent Services Interview (PSI) at 6, 15, 26 months after random assignment: Health; Child Care Needs and Use; Dunst Scales; Goals Met in Dunst Areas.

Baseline Variables in Public Use File

Demographic data for primary caregiver, focus child, other household members

Receipt of welfare and other assistance, income level

Dunst Family Resource Scale

Child health & child birth status

8 sites: maternal depression

Maternal risk index

Case information: program group status, random assignment date
Baseline Demographics

Thirty-nine percent of applicants were teenaged at enrollment.

Forty-eight percent of applicants had not completed high school (nor earned a GED) at enrollment.

Applicant Ethnicity

- White
- African-American
- Hispanic
- Other
## Child Development Variables in Public Use File (1)

<table>
<thead>
<tr>
<th>Measure</th>
<th>Data Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child Health Status</td>
<td>14-, 24- and 36-Month Parent Interviews</td>
</tr>
<tr>
<td><strong>Child cognitive and language development</strong></td>
<td></td>
</tr>
<tr>
<td>Bayley Mental Development Index (MDI)</td>
<td>Direct Child Assessment (14, 24 and 36 months)</td>
</tr>
<tr>
<td>Vocabulary production and sentence complexity</td>
<td>24-Month Parent Interviews</td>
</tr>
<tr>
<td>Receptive vocabulary</td>
<td>Direct Child Assessment (36 Months)</td>
</tr>
</tbody>
</table>
## Child Development Variables in Public Use File (2)

### Child social and emotional well-being

<table>
<thead>
<tr>
<th>Measure</th>
<th>Data Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child engagement, negativity toward parent, and sustained attention with objects</td>
<td>Coding from Videotaped Parent-Child Semistructured Play Task (14, 24 and 36 months)</td>
</tr>
<tr>
<td>Child engagement, persistence, and frustration</td>
<td>Coding from Videotaped Puzzle Challenge Task (36 Months)</td>
</tr>
<tr>
<td>Emotional regulation, orientation/engagement</td>
<td>Interviewer Observations (24 and 36 months)</td>
</tr>
<tr>
<td>Aggressive behavior</td>
<td>24- and 36-Month Parent Interviews</td>
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</table>
### Parenting Variables in Public Use File (1)

#### Parenting Behavior, Knowledge, and the Home Environment

<table>
<thead>
<tr>
<th>Measure</th>
<th>Data Source</th>
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</thead>
<tbody>
<tr>
<td>Knowledge of child development</td>
<td>14-, 24- and 36-Month Parent Interviews</td>
</tr>
<tr>
<td>Discipline strategies</td>
<td>14-, 24- and 36-Month Parent Interviews</td>
</tr>
<tr>
<td>Safety precautions</td>
<td>14-, 24- and 36-Month Parent Interviews</td>
</tr>
<tr>
<td>Parent warmth, harshness and stimulation of language and learning</td>
<td>14-, 24- and 36-Month Parent Interviews</td>
</tr>
<tr>
<td>Quality of cognitive and emotional support provided in the home environment</td>
<td>14-, 24- and 36-Month Parent Interviews and Interviewer Observations</td>
</tr>
<tr>
<td>Father Involvement</td>
<td>14-, 24- and 36-Month Parent Interviews</td>
</tr>
<tr>
<td>Measure</td>
<td>Data Source</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Parent supportiveness</td>
<td>Coding from Videotaped Parent-Child Semistructured Play Task (14, 24 &amp; 36 Months)</td>
</tr>
<tr>
<td>Parent detachment</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Parent intrusiveness</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Parent negative regard of child</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Parent quality of assistance</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Parent detachment</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Parent intrusiveness</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>

**Parenting Behavior**
Child Engagement, Parent Supportiveness 
at 14, 24, and 36 Months of Age

<table>
<thead>
<tr>
<th>Rating (scale 1 - 7)</th>
<th>14 Months</th>
<th>24 Months</th>
<th>36 Months</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5</td>
<td>3.75</td>
<td>4.0</td>
<td></td>
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<tr>
<td>4.0</td>
<td>4.25</td>
<td>4.5</td>
<td></td>
</tr>
<tr>
<td>4.5</td>
<td>4.75</td>
<td>5.0</td>
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</table>

Age of Child (months)

- Child Engagement - Program
- Child Engagement - Control
- Parent Supportiveness - Program
- Parent Supportiveness - Control
<table>
<thead>
<tr>
<th>Measure</th>
<th>Data Source</th>
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</thead>
<tbody>
<tr>
<td>Parent’s Health and Mental Health (depression, parenting stress)</td>
<td>14-, 24- and 36-Month Parent Interviews</td>
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<tr>
<td>Family Functioning (family conflict)</td>
<td>14-, 24- and 36-Month Parent Interviews</td>
</tr>
<tr>
<td>Self-Sufficiency (education and training, welfare receipt, employment and income)</td>
<td>6-, 15, and 26-Month Parent Services Interviews</td>
</tr>
</tbody>
</table>
In Activity, Received Welfare, by Quarter after Intake

Quarter after Intake

percentage (not adjusted)

Employed or in Education - Program
Employed or in Education - Control
Got Public Assistance - Program
Got Public Assistance - Control
Service Use Variables in Public Use File

Measures from 6-, 15, and 26-Month Parent Services Interviews (Includes services received from EHS and other sources)

Married or cohabiting

Home visits, case management, group activities, parenting-related services

Family health and other family development services

Child health and development services, child care services

Dunst Family Resources Scale
## Child Care Used by Early Head Start Families

<table>
<thead>
<tr>
<th>Program Approach</th>
<th>Full Sample</th>
<th>Center-Based</th>
<th>Home-Based</th>
<th>Mixed-Approach</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Percentage of Children:</strong></td>
<td></td>
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<tr>
<td>Who received any child care</td>
<td>86</td>
<td>93</td>
<td>80</td>
<td>89</td>
</tr>
<tr>
<td>Who received center-based child care</td>
<td>51</td>
<td>79</td>
<td>33</td>
<td>52</td>
</tr>
<tr>
<td><strong>Percentage of Children Who Received Care by Number of Arrangements:</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>0</td>
<td>14</td>
<td>7</td>
<td>20</td>
<td>11</td>
</tr>
<tr>
<td>1 or 2</td>
<td>47</td>
<td>40</td>
<td>48</td>
<td>49</td>
</tr>
<tr>
<td>3 or more</td>
<td>40</td>
<td>53</td>
<td>33</td>
<td>40</td>
</tr>
<tr>
<td>Average # of arrangements used</td>
<td>2</td>
<td>3</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>
Use of Child Care by Early Head Start Children at 14, 24, and 36 Months of Age

Percentage

<table>
<thead>
<tr>
<th></th>
<th>14 Months</th>
<th>24 Months</th>
<th>36 Months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any Child Care Arrangement</td>
<td>n = 955</td>
<td>n = 786</td>
<td>n = 683</td>
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<tr>
<td></td>
<td>66</td>
<td>60</td>
<td>84</td>
</tr>
<tr>
<td>Any Child Care Center</td>
<td>n = 966</td>
<td>n = 850</td>
<td>n = 515</td>
</tr>
<tr>
<td></td>
<td>34</td>
<td>31</td>
<td>65</td>
</tr>
</tbody>
</table>

Research and Evaluation Project

Early Head Start Partnerships
Search Function

**Basic Search**

New users may wish to read an explanation of the different types of resources available on the CCEER site.

Search for [All Resources](#) that contain...

- [Early Head Start](#)
- [words](#)
- [phrase](#)

**Search Tips**

- Enter the word child to find fields containing child or children.
- Enter child care policy and click on the phrase button to find fields containing the phrase child care policy.
- Use the resource type drop-down box to limit your search to different kinds of materials. For example, lengthy research-oriented Reports & Papers versus brief, policy-oriented Executive Summaries.
- To perform more refined searches, make use of our [advanced search](#), which allows field-specific searching, searching for multiple phrases, and Boolean operators.
<table>
<thead>
<tr>
<th>Reference Type</th>
<th>Title</th>
<th>Date</th>
<th>Other</th>
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<tbody>
<tr>
<td></td>
<td>Linguistic diversity and early literacy: Serving culturally diverse families in Early Head Start</td>
<td>Zero To Three. Early Head Start National Resource Center, 2001</td>
<td>Other</td>
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<tr>
<td></td>
<td>Early Head Start home-based program options: Recruiting, training, and retraining qualified staff</td>
<td>Technical assistance paper no. 2</td>
<td>Other</td>
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<tr>
<td></td>
<td>Early Head Start program implementation: Start-up planning: Technical assistance paper no. 1</td>
<td>Zero To Three. Early Head Start National Resource Center, 1999</td>
<td>Other</td>
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<tr>
<td></td>
<td>Developmental screening, assessment, and evaluation: Key elements for individualizing curriculum in Early Head Start programs</td>
<td>Zero To Three. Early Head Start National Resource Center, 2000</td>
<td>Other</td>
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<tr>
<td></td>
<td>Giving children the earliest head start: Developing an individualized approach to high quality services for pregnant women: Technical assistance paper no. 3</td>
<td>Zero To Three. Early Head Start National Resource Center, 2000</td>
<td>Other</td>
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<td>Linguistic diversity and early literacy: Serving culturally diverse families in Early Head Start: Technical assistance paper no. 5</td>
<td>Zero To Three. Early Head Start National Resource Center, 2001</td>
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<td>Zero To Three. Early Head Start National Resource Center, 1999</td>
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</tbody>
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View Resource Details

Resource Type: Datasets
Title: Early Head Start Research and Evaluation (EHSSRE) Study, 1996-2001
Primary Author: United States. Administration for Children and Families
Date Issued: 2004
Funder(s): United States. Administration for Children and Families
Availability: www.icpsr.umich.edu/cgi-bin/archive.pl?path=CGEECStudy=3804
Rights Access Status: Rights access not assessed yet.
Electronic File
Download:

Descriptors: Mathematica Policy Research, Inc.
Data Collector(s):

Is Resource Peer Reviewed? No
Bookmark URL: http://www.childcareresearch.org/location/ccra2925

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Child Care & Early Education

Downloads -- Study No. 3804

- View Readme
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- Related Links for This Study

United States Department of Health and Human Services, Administration for Children and Families.

Dataset No. and Name

  - Codebook appendix, vol. 1, PDF (674K)
  - Codebook appendix, vol. 2, PDF (10220K)
  - Codebook, PDF (1722K)
  - Data (15807K)
  - SAS data def. statements (745K)
  - SAS transport (15808K)
  - SPSS data def. statements (712K)
  - SPSS export or portable (4697K)

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Related Links
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- View File Information
Public Use Data Files at CCEER C

2,977 observations, 680 variables

- ASCII Data File
  - SAS Data definition statements
  - SPSS Data definition statements
- SAS Transport file
- SPSS Portable file
- Online Analysis
Documentation Files at CCEER (PDF)

- Codebook
- Codebook Appendices, Volume I
- Codebook Appendices, Volume II
Online Analysis

CCEERC DAS Archive


Select an action:
- Browse codebook in this window
- Run frequency or crosstabulation
- Comparison of means
- Correlation matrix
- Comparison of correlations
- Multiple regression
- List values of individual cases
- Recode variables
- Compute a new variable
- List user-created variables
- List user-created variables in temporary storage area
- Download a customized subset of variables/cases (user-created variables not available)

Suggestion for running analysis programs:
If your browser allows you to open more than one window at a time, click the "Extra Codebook Window" button above. This allows you to "copy-and-paste" the names of variables you wish to analyze from the codebook window to the analysis windows.

United States Department of Health and Human Services, Administration for Children and Families

First ICPSR Version
June 2004

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Online Analysis Codebook


Headings for Sequential Variable List

- BASELINE CASE/PROGRAM INFORMATION
- BASELINE APPLICANT INFORMATION
- BASELINE FAMILY INFORMATION
- BASELINE FAMILY INCOME/BENEFITS
- BASELINE FAMILY NEEDS
- BASELINE/FAMILY CHILD INFORMATION
- PSY/PROGRAM SERVICES-HOME VISITS
- PSY/PROGRAM SERVICES-CASE MANAGEMENT
- PSY/PROGRAM SERVICES-GROUP ACTIVITIES
- PSY/PROGRAM SERVICES-OVERALL
- PSYCH CHILD CARE
- PSYCH CHILD SERVICES
- PSYCH DEVELOPMENT SERVICES
- PSYCHOTHERAPY SERVICES
- PSEA: FAMILY NEEDS AND SUPPORT
- PSEA: ACTIVITY (WORK/EDUCATION)
- PSEA: EDUCATION HIGHEST
- PSEA: EDUCATION ATTEMPTED
- PSEA: INCOME/BENEFITS
- PSEA: INTV/INTV. WELL-BEING/CHARACTERISTICS
- PSEA: INTERVIEW/PARENTING
- PSEA: INTERVIEW/DISCIPLINE
- PSEA: INTERVIEW/HOME SCALE
- PSEA: INTERVIEW/HEALTH/SAFETY
- PSEA: INTERVIEW/FEATHER INFORMATION
- PSEA: INTERVIEW/CHILD CARE
- PSEA: INTERVIEW/CHILD CHARACTERISTICS/OUTCOMES
- CHILD ASSESSMENT: BAYLEY
- CHILD ASSESSMENT: PEVT
- VIDEO INTERACTIONS Coding
- DATA COLLECTION VARIABLES
### Online Analysis Codebook

#### P2_LIVTG

**PSI28: COHABIT UNMARRIED**

- **% Valid**: 84.8
- **% All**: 59.4
- **N**: 1,769
- **Value**: 0 (No), 1 (Yes)
- **Missing-data codes**: 8, 9

<table>
<thead>
<tr>
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<th>% All</th>
<th>N Value</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>84.8</td>
<td>59.4</td>
<td>1,769</td>
<td>0</td>
</tr>
<tr>
<td>15.2</td>
<td></td>
<td>10.6</td>
<td>1</td>
</tr>
<tr>
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<td>91.1</td>
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<tr>
<td>100.0</td>
<td>100.0</td>
<td>2,977</td>
<td>Total</td>
</tr>
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</table>

**Properties**
- **Data type**: numeric
- **Missing-data codes**: 8, 9
- **Record/Columns**: 10395-3062

#### P0_MAR

**PSI16: MARRIED**

- **% Valid**: 67.7
- **% All**: 42.3
- **N**: 1,259
- **Value**: 0 (No), 1 (Yes)
- **Missing-data codes**: 8, 9

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<thead>
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<th>% All</th>
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<th>Label</th>
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</thead>
<tbody>
<tr>
<td>67.7</td>
<td>42.3</td>
<td>1,259</td>
<td>0</td>
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<tr>
<td>32.3</td>
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<tr>
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<td>100.0</td>
<td>2,977</td>
<td>Total</td>
</tr>
</tbody>
</table>

**Properties**
- **Data type**: numeric
- **Missing-data codes**: 8, 9
- **Record/Columns**: 10395-3022

#### P1_MAR

**PSI15: MARRIED**

- **% Valid**: 65.7
- **% All**: 40.3
- **N**: 1,199
- **Value**: 0 (No), 1 (Yes)
- **Missing-data codes**: 8, 9

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<th>N Value</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>65.7</td>
<td>40.3</td>
<td>1,199</td>
<td>0</td>
</tr>
<tr>
<td>34.3</td>
<td></td>
<td>21.0</td>
<td>1</td>
</tr>
<tr>
<td>38.7</td>
<td></td>
<td>115.3</td>
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<tr>
<td>100.0</td>
<td>100.0</td>
<td>2,977</td>
<td>Total</td>
</tr>
</tbody>
</table>
Conducting Online Analysis

[Image of a computer screen showing an online analysis tool with various options for selecting variables, filters, and weighting, as well as options for percentage formatting and decimal places.]
Online Analysis Output
Baseline Demographics – Mother’s Teenage Status by Child’s Age at Enrollment

Percentage

- Pregnant: Teen 28.8, Older 23.4
- Birth to 5 Months: Teen 34.7, Older 36.1
- Older than 5 Months: Teen 36.5, Older 40.5
Reports Written

Interim Impacts

Final Impacts; chapter for *Beacon of Hope*

Child Care Policy Report (in clearance); FAP for *Child Development; Child Care 4 Page Summary Report*

Health Policy

Implementation (including descriptions of child care use)

Working Groups-Scholarly Papers: Fathers; Disabilities; Parenting Processes; Child Care; Program Process; Measurement; Risk and Protective Factors; School Readiness

Special Issues: *Infant Mental Health Journal; fathers journals*
The Possibilities

Topics for 7th HSRC Presentations by EHS Consortium Members include:

- Child care settings for children eligible for EHS
- Parenting and other contextual factors related to child development
- EHS program delivery models and staff
- Services for children with disabilities
- Child cognitive development and literacy/school readiness
Presentations Related to Family Outcomes:

Poster: *Examining the parenting experiences of low-functioning children In Early Head Start*, Luze, G., Raikes, H., Carta, J., & Armijo, E.

EHS Presentations

Presentations Related to Child Language and Literacy:


Symposium: Language and literacy environments of toddlers in low income families: Relations to cognitive and language development (209), Chairpersons: Helen Raikes & Barbara Pan
Using EHS Data Workshop

Sponsored by CCEERCEC

Instructors: Lorraine McKelvey & Anne Bloomenthal

August 11-13, 2004
Ann Arbor, MI

www.icpsr.umich.edu/sumprog

(734) 763-7400
For More Information…

EHS Evaluation:
http://www.acf.hhs.gov/programs/core/ongoing_research/ehs/ehs_intro.html

EHSRE data at CCEE Research Connections:
Web: www.childcareresearch.org
Email: contacts@childcareresearch.org