MEASURING CHILD CARE

- Primary Child Care
- “Secondary” child care
  - Child “in your care”
  - Responsibility / monitoring of child(ren)
  - In ATUS-X ≠ simultaneous child care activity

- Time with Children
  - Any activity with household & nonhousehold children
FIGURE 1. COMPARING TYPES OF CHILD TIME

Minutes per Day of Child Time Types

- Primary Child Care
- Secondary Child Care
- Activities with Children
FIGURE 2. COMPARING REPORTS OF TYPES OF CHILD TIME

Percent of Parents Reporting Types of Child Time

![Bar chart showing the percent of parents reporting types of child time for fathers and mothers.](chart)

- **Fathers**
  - Primary Child Care
  - Secondary Child Care
  - Activities with Children

- **Mothers**
  - Primary Child Care
  - Secondary Child Care
  - Activities with Children
CONCEPTUALIZING PRIMARY CHILD CARE

- Physical care
- Developmental care
- Managerial care
## CODING PRIMARY CHILD CARE TIME

### ATUS 2003-12 Activity coding lexicon

<table>
<thead>
<tr>
<th>Major category</th>
<th>First and second-tier categories</th>
<th>6-digit activity code</th>
<th>Activity</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>0299</td>
<td>Household activities, n.e.c.*</td>
<td>029999</td>
<td>Household activities, n.e.c.*</td>
<td></td>
</tr>
<tr>
<td>03</td>
<td>Caring For &amp; Helping Household Members</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0301</td>
<td>Caring For &amp; Helping HH Children</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>030101</td>
<td></td>
<td>030101</td>
<td>Physical care for hh children</td>
<td></td>
</tr>
<tr>
<td>030102</td>
<td></td>
<td>030102</td>
<td>Reading to/with hh children</td>
<td></td>
</tr>
<tr>
<td>030103</td>
<td></td>
<td>030103</td>
<td>Playing with hh children, not sports</td>
<td></td>
</tr>
<tr>
<td>030104</td>
<td></td>
<td>030104</td>
<td>Arts and crafts with hh children</td>
<td></td>
</tr>
<tr>
<td>030105</td>
<td></td>
<td>030105</td>
<td>Playing sports with hh children</td>
<td></td>
</tr>
<tr>
<td>030108</td>
<td></td>
<td>030108</td>
<td>Talking with/listening to hh children</td>
<td>includes 030106 (all years), 030107 (2003)</td>
</tr>
<tr>
<td>030109</td>
<td></td>
<td>030109</td>
<td>Looking after hh children (as a primary activity)</td>
<td></td>
</tr>
<tr>
<td>030110</td>
<td></td>
<td>030110</td>
<td>Attending hh children's events</td>
<td></td>
</tr>
<tr>
<td>030111</td>
<td></td>
<td>030111</td>
<td>Waiting for/with hh children</td>
<td></td>
</tr>
<tr>
<td>030112</td>
<td></td>
<td>030112</td>
<td>Picking up/dropping off hh children</td>
<td></td>
</tr>
<tr>
<td>030199</td>
<td></td>
<td>030199</td>
<td>Caring for &amp; helping hh children, n.e.c.*</td>
<td></td>
</tr>
<tr>
<td>0302</td>
<td>Activities Related to HH Children's Education</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>030201</td>
<td></td>
<td>030201</td>
<td>Homework (hh children)</td>
<td></td>
</tr>
<tr>
<td>030202</td>
<td></td>
<td>030202</td>
<td>Meetings and school conferences (hh children)</td>
<td></td>
</tr>
<tr>
<td>030203</td>
<td></td>
<td>030203</td>
<td>Home schooling of hh children</td>
<td></td>
</tr>
<tr>
<td>030224</td>
<td></td>
<td>030224</td>
<td>Waiting associated with hh children's education</td>
<td></td>
</tr>
<tr>
<td>030299</td>
<td></td>
<td>030299</td>
<td>Activities related to hh child's education, n.e.c.*</td>
<td></td>
</tr>
<tr>
<td>0303</td>
<td>Activities Related to HH Children's Health</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>030301</td>
<td></td>
<td>030301</td>
<td>Providing medical care to hh children</td>
<td></td>
</tr>
<tr>
<td>030302</td>
<td></td>
<td>030302</td>
<td>Obtaining medical care for hh children</td>
<td></td>
</tr>
<tr>
<td>030303</td>
<td></td>
<td>030303</td>
<td>Waiting associated with hh children's health</td>
<td></td>
</tr>
<tr>
<td>030399</td>
<td></td>
<td>030399</td>
<td>Activities related to hh child's health, n.e.c.*</td>
<td></td>
</tr>
</tbody>
</table>
FIGURE 3. MORE CHILD CARE TIME OF HOUSEHOLD CHILDREN
CREATING PRIMARY CHILD CARE MEASURES

ATUS-X
American Time Use Survey Extract Builder

Activity coding structure

Add to cart | Name   | Label
---         | ---    | ---
ACT_PCARE  | ACT: Personal care |
ACT_HHACT  | ACT: Household activities |
ACT_CARECH | ACT: Caring for and helping household members |
ACT_CARENCH| ACT: Caring for and helping non-household members |
ACT_WORK   | ACT: Working and Work-related Activities |
ACT_EDUC   | ACT: Educational activities |
ACT_PURCH  | ACT: Consumer purchases |
ACT_PROPSERV| ACT: Professional and personal care services |
ACT_HHSERV | ACT: Household services |
ACT_GOVERN | ACT: Government services and civic obligations |
ACT_FOOD   | ACT: Eat and drinking |
ACT_SOCIAL | ACT: Socializing, relaxing, and leisure |
ACT_SPORTS | ACT: Sports, exercise, and recreation |
ACT_RELIG | ACT: Religious and spiritual activities |
ACT_VOL | ACT: Volunteer activities |
ACT_PHONE | ACT: Telephone calls |
ACT_TRAVEL | ACT: Traveling |

IPUMS

030000 CARING FOR AND HELPING HOUSEHOLD MEMBERS

Category Description
2003+: This category captures activities the respondent did to care for or help any child or adult in the respondent’s household, regardless of relationship, age, or physical or mental health status. Care for household children and adults is coded separately in sub-categories under 030000. Household members are considered children if under the age of 16.

Activity Coding Rules

Talking with son/daughter/household child
2003+: Code as Caring for and Helping Household Members/Caring for and Helping Household Children/Talking with or listening to household children (030166).

Talking with a child and other adults
2003+: Code as Socializing, Relaxing, and Leisure/Socializing and communicating/Socializing and communicating with others (120101).

Talking with household child and non-household child
2003+: Code as Caring for and Helping Household Members/Caring for and Helping Household Children/Talking with or listening to household children (030166).

Doing arts and crafts, playing games, and playing sports with household child
2003+: Code as Caring for and Helping Household Members/Caring for and Helping Household Children/relevant activity (030100). Exception: If the verbatim does not mention children (e.g., “playing Monopoly”) but the WHO
Creating Primary Child Care Variables from Scratch

- **Physical**
  - 030101 + 030109 + 030199 + 030301 + 030302 + 030303 + 030399 + 180381

- **Developmental**
  - 030102 + 030103 + 030104 + 030105 + 030106 + 030201 + 030203

- **Managerial**
  - 030108 + 030110 + 030111 + 030112 + 030202 + 030204 + 030299 + 080101 + 080102 + 080199 + 160107 + 180801

- [https://www.atusdata.org/atus-action/time_use_variables/new](https://www.atusdata.org/atus-action/time_use_variables/new)
FIGURE 4. MORE DAILY TIME IN PHYSICAL CHILD CARE TIME

Primary Child Care Minutes per Day

Fathers
Mothers

Physical Developmental Managerial

[Bar chart showing the comparison between fathers and mothers in terms of primary child care minutes per day, segmented into physical, developmental, and managerial activities.]
FIGURE 5. HIGHER % OF PARENTS REPORT PHYSICAL CHILD CARE ACTIVITIES

% Parents Reporting Primary Child Care

- Fathers
- Mothers

All CC
Physical
Developmental
Managerial
FIGURE 6. MORE CHILD CARE TIME WHEN YOUNG CHILDREN PRESENT

Primary Child Care Minutes per Day by Age of Kids

- Fathers
  - <1
  - <6
  - <13
  - >13
- Mothers
  - <1
  - <6
  - <13
  - >13

Colors:
- Blue: Physical
- Red: Developmental
- Green: Managerial
FIGURE 7. HIGHER % OF PARENTS REPORT CHILD CARE WHEN CHILDREN ARE <6
SECONDARY CHILD CARE TIME

- Data collected after main diary
  - “at which times or during which activities was a child in your care?”
- Children ages 0-12
- Secondary child care not collected if
  - children are asleep
  - respondent is asleep
  - primary activity is child care
ATUS-X SECONDARY CHILD CARE MEASURES

- Summary and Activity-level measures
- Types of secondary child care, 2003
  - Household and own, non-household children
  - Non-household, non-own children
  - Own *household* children
  - Own *non-household* children
  - *Non-own* household children
  - *Non-own*, *non-household* children
Creating Secondary Child Care Measures

ATUS-X
American Time Use Survey Extract Builder

Select Variables

- Household
- Person
- Activity
- Who
- Time Use
- Search

Create Time Use Variable
Change Samples

Data Cart
- Rectangular
- Hierarchical

An "X" indicates the variable is available in that dataset.

Secondary Activity Variables -- ACTIVITY

<table>
<thead>
<tr>
<th>Add to cart</th>
<th>Variable</th>
<th>Variable Label</th>
<th>Type</th>
<th>Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SCC_HNNHOWN_LN</td>
<td>Time spent during activity on secondary child care of household and own, non-household children</td>
<td>A</td>
<td>codes XX X X X X X X X</td>
</tr>
<tr>
<td></td>
<td>SCC_ALL_LN</td>
<td>Duration of time spent during activity on secondary child care of all children</td>
<td>A</td>
<td>codes X X X X X X X X X</td>
</tr>
<tr>
<td></td>
<td>SCC_NOWNHNN_LN</td>
<td>Time spent during activity on secondary child care of non-own, non-household children</td>
<td>A</td>
<td>codes X X X X X X X X</td>
</tr>
<tr>
<td></td>
<td>SCC_HH_LN</td>
<td>Time spent during activity on secondary child care of household children</td>
<td>A</td>
<td>codes X X X X X X X X X</td>
</tr>
<tr>
<td></td>
<td>SCC_OWNNHH_LN</td>
<td>Time spent during activity on secondary child care of non-own, household children</td>
<td>A</td>
<td>codes X X X X X X X X</td>
</tr>
<tr>
<td></td>
<td>SCC_OWNNH_LN</td>
<td>Time spent during activity on secondary child care of own children</td>
<td>A</td>
<td>codes X X X X X X X X</td>
</tr>
<tr>
<td></td>
<td>SCC_OWNN_LN</td>
<td>Time spent during activity on secondary child care of own, household children</td>
<td>A</td>
<td>codes X X X X X X X X</td>
</tr>
<tr>
<td></td>
<td>SCC_OWNNHH_LN</td>
<td>Time spent during activity on secondary child care of own, non-household children</td>
<td>A</td>
<td>codes X X X X X X X X</td>
</tr>
<tr>
<td></td>
<td>SED_DRINK_LN</td>
<td>Time spent during activity on secondary drinking</td>
<td>A</td>
<td>codes X X X X X X X</td>
</tr>
<tr>
<td></td>
<td>SED_EAT_LN</td>
<td>Time spent during activity on secondary eating</td>
<td>A</td>
<td>codes X X X X X X X</td>
</tr>
<tr>
<td></td>
<td>SED_ALL_LN</td>
<td>Duration of time spent during activity on secondary eating and drinking</td>
<td>A</td>
<td>codes X X X X X X X</td>
</tr>
<tr>
<td></td>
<td>SEC_ALL_LN</td>
<td>Duration of time spent during activity on secondary eldercare for household and non-household elderly</td>
<td>A</td>
<td>codes X X X X X X X</td>
</tr>
<tr>
<td></td>
<td>WHO_ASK</td>
<td>Who asked for activity</td>
<td>A</td>
<td>codes X X X X X X X</td>
</tr>
</tbody>
</table>
### Creating Secondary Child Care Measures

Secondary activities occur at the same time as primary activities. Secondary activities available in the ATUS include child care (2003+), eating and drinking (2006-2008), and eldercare (2011+). By applying secondary activity filters, only time spent during the primary activities in which the secondary activity also occurred will be aggregated to create a time use variable. Secondary activity filters may not be applied together. Users who are unfamiliar with how the secondary activity filters work should consult the additional documentation provided.

#### Secondary Activity Filters
- Duration of entire activity
- Duration of time spent during activity on secondary child care of all children
- Duration of time spent during activity on secondary eating and drinking
- Duration of time spent during activity on secondary eldercare for household and non-household elderly

You cannot save your Time use Variable until you log in.

---

### Create Time Use Variable

<table>
<thead>
<tr>
<th>Activity</th>
<th>Time of Day</th>
<th>Secondary Activity</th>
<th>Location</th>
<th>With Whom</th>
<th>Name and Label</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Secondary activities occur at the same time as primary activities. Secondary activities available in the ATUS include child care (2003+), eating and drinking (2006-2008), and eldercare (2011+). By applying secondary activity filters, only time spent during the primary activities in which the secondary activity also occurred will be aggregated to create a time use variable. Secondary activity filters may not be applied together. Users who are unfamiliar with how the secondary activity filters work should consult the additional documentation provided.

#### Secondary Activity Filters
- Duration of entire activity
- Duration of time spent during activity on secondary child care of all children
- Duration of time spent during activity on secondary eating and drinking
- Duration of time spent during activity on secondary eldercare for household and non-household elderly

You cannot save your Time use Variable until you log in.
FIGURE 8. COMPARING MINUTES PER DAY OF TYPES OF SECONDARY CHILD CARE TIME

Parents' Types of Secondary Child Care Time

Fathers
Mothers

- All Kids
- All HH
- Own NonHH
- NonOwn HH

- Own HH
- All Own
- Non-Own NonHH

[Bar chart details]
FIGURE 9. COMPARING REPORTS OF SECONDARY CHILD CARE

% Parents Reporting Secondary Child Care

Fathers
- All Kids
- All HH
- Own NonHH
- NonOwn HH

Mothers
- Own HH
- All Own
- Non-Own NonHH
- NonOwn HH
WITH WHOM DATA

- Use “who with” variables to create
  - How much time is spent with children in all activities
  - How much time is spent in “solo” and “shared” child care

- With whom data is not collected if primary activity is
  - Sleep
  - Personal care
Creating Measures Using with Whom Data

ATUS-X American Time Use Survey Extractor Builder

Create Time Use Variable

<table>
<thead>
<tr>
<th>Activity</th>
<th>Time of Day</th>
<th>Secondary Activity</th>
<th>Location</th>
<th>With Whom</th>
<th>Name and Label</th>
<th>Summary</th>
</tr>
</thead>
</table>

The "with whom" filter allows users to restrict the time use variable currently being created to those that occurred alone or with specified others (see ATUS-X). The default selection is no specifications, meaning that the times spent in each of the selected activities (given other filter selections) are added together regardless of who was present during the activities. Users who want to filter activities based on the presence of other people may distinguish between whether all of the people must be present or any of the selected persons must be present; users may also specify the persons that must not be present for the duration of an activity to be included in the time use variable creation.

[more info]

With Filter
- Do not make any specifications
- I want to specify others with whom the respondent did (or did not) spend time
- I am only interested in the time the respondent spent [alone].

With Others
- Include time spent during an activity with any of the people identified in the present column
- Include time spent during an activity with all of the people identified in the present column

Present | Does Not Matter | Not Present | Household members |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Speaker</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Unrelated partner</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Own household child</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Specific age and sex</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Grandchild</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Parent</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Brother/sister</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Other related person</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Foster child</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Housemate, roommate</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Business, boarder</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Other nonrelative</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Own non-household child under 18</td>
</tr>
</tbody>
</table>

Other non-household people
- Parents (not living in household)
- Other non-household family members under 18
- Other non-household family members 18 and older (including parents-in-law)
- Other
- Friends
- Co-workers, colleagues, clients (non-work activities only)
- Boss or manager (work activities only, 2015+)
- People whom supervise (work activities only, 2010+)
- Co-workers (work activities only, 2010+)
- Customers (work activities only, 2010+)
- Neighbors, acquaintances
- Other non-household children under 18

You will not be able to save your time use variable until you log in.
FIGURE 10. MORE TIME WITH OWN HOUSEHOLD CHILDREN

Time with Children

- Fathers
- Mothers

- All Children
- Own HH
- Own NonHH
- Non-Own NonHH
FIGURE 8. SOLO & SHARED PRIMARY CHILD CARE

Daily Child Care Minutes

Men
Women
UK

Men
Women
USA

Solo Routine
Shared Routine
Solo Developmental
Shared Developmental
FIGURE 11. REPORTS OF TIME WITH CHILDREN

Percentage of Parents Reporting Time with Children

Fathers
- All Children: Blue
- Own HH: Burgundy
- Own NonHH: Green

Mothers
- All Children: Blue
- Own HH: Burgundy
- Non-Own NonHH: Orange

Legend:
- All Children
- Own HH
- Own NonHH
- Non-Own NonHH
FIGURE 12. NEGATIVE INFLUENCE OF AGE OF CHILDREN SMALLER FOR TIME WITH CHILDREN THAN PRIMARY CHILD CARE
CHILD CARE & 2010 WELL-BEING MODULE

LIMITATIONS OF TIME USE MEASURES OF CHILD CARE

- Can’t produce data on care for specific children
- Can’t determine quality of time
- Affect data for selected activities only
- One-day snapshot
  - May not reflect long-term child related time
  - Difficult to model causality
QUESTIONS?