

Survey Item Bank

FedCASIC Presentation

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NCS-Study Background

- The National Children's Study (NCS) represented one of the most comprehensive research efforts, and the largest and most detailed study in history focused on children's health and development in the United States.
- Examined the relationship between child development and a wide range of environmental factors.
- NCS planned to collect longitudinal data of 100,000 U.S. children who will be followed from their mothers' pregnancies until they are 21 years old.
- Nationally representative probability sample.

Vanguard Pilot Study

- Focused on testing recruitment and enrollment strategies.
- Reviewed issues of administration time, costs, maintenance of supplies, equipment, etc.
- Collected preliminary data on child health and environmental factors
- Different types of data collection tools tested:
 - biospecimen (e.g., blood, urine, saliva)
 - environmental samples (e.g., dust, soil, air)
 - observations (e.g., residences, neighborhoods)
 - physical evaluations
 - questionnaires

Vanguard Questionnaire

- Questionnaires administered to pregnant mothers, fathers, caregivers, and children across many study visits.
- Core questionnaire included standardized sets of items asked of all NCS participants.
- Specific modules developed appropriate for the age and specific type of data collection.

Avar's Role/Task

- Support NICHD in developing questionnaires from pregnancy through 60 months to ensure that:
 - Questionnaires cover most important topics/measures in child development (coverage).
 - Items are comparable with major federal/national studies (comparability).
 - Items/questions are consistent across all the NCS data collection instruments (consistency).

Coverage

- Identified topics (and survey items) covered by selected international birth cohort studies, but not in previous NCS questionnaires, to make sure that all relevant topics will be covered in future studies.
- Initially, four international birth cohort studies were reviewed, including ALSPAC, BIB, ECS, and MoBa.*
- NCS program staff made decisions to include or exclude domains/sub-domains that did not appear on Vanguard questionnaires.

*ALSPAC–Avon Longitudinal Study of Parents & Children/Children of the 90s, England; BIB–Born in Bradford, England; ECS–Ecology- Children Study, Japan; and MoBa–Norske morog bar-undersøkelsen (Norwegian Mother and Child Cohort Study, Norway).

Comparability

- Compared selected NCS survey items with similar ones used in selected national studies.
- Question wording, response categories, question order, and skip patterns were examined to ensure comparability between NCS and other major federal and national studies.
- NCS program staff reviewed the comparisons and either chose the "best" item set (or survey item) or requested that the SIB include multiple item sets.
- National and regional studies reviewed, including:
 - American Community Survey (ACS)
 - National Health and Nutrition Examination Survey (NHANES)
 - National Health Interview Survey (NHIS)
 - American Healthy Homes Survey (AHHS)
 - Other databases, such as NIH toolbox

Consistency

- Review and verify that the same question wording and response categories are used across different study visits and different survey modes.
- Avar examined items appearing on the Pregnancy, Birth, Core, 3-, 6-, 9-, 12, 18-, and 24-month questionnaires.

SIB Development-Purpose

- Create an online tool to document all the survey items in one database to enable researchers to examine survey item coverage, comparability, and consistency through the following functions:
 - Classify related survey items into topic oriented "item sets"
 - Search items/item sets by study, topics, and target population
 - Compare survey questions and topics across studies (online crosswalk)
 - Create questionnaires by selecting item sets
 - Document detailed metadata of each item set

SIB Characteristics

- Online (web-based) application
- Based on 7 measurement categories developed by NCS, including:
 - Demographics, Health Behaviors, Neurodevelopment, Psychosocial, Physical Environment, Physical Health, and Social Environment
- 9,000 individual survey items
- 100 different sources
- Metadata information
- Integrate with databases developed by other contractors
- Very user-friendly!

Item Sets

- Each item set consists of a single question or of a series of closely related questions that covers a single subject or topic.
- Item sets are the building blocks for creating a questionnaire for any form of administration.
- Each item set also contains metadata—information about the question(s) in the set, including sources, use in NCS develop-mental surveys, intended respondent, intended subject ("target"), and characteristics, such as whether the question is proprietary or an element of a tested set that constitutes a "scale."

Documentation Provided to NICHD

- 28-page document describing the system architecture of the SIB website and step by step instructions how to install the system and configure it.
- A 23-page User's Guide describing the steps to log into the SIB, instructions to display information, steps to conduct keyword searches, instructions to download an item to create questionnaires.
- A 19-page document describing how to add questions to the SIB database.

Application of SIB Tool

The SIB represents an innovative tool to help organizations develop questionnaires (either cross-sectional or longitudinal) of any subject matter.

SIB Screen Snapshots

Login Screen



The National Children's Study is a multi-year research study that will examine the effects of environmental influences on the health and development of more than 100,000 children across the United States, following them from before birth until age 21 years. The goal of the Study is to improve the health and well-being of children and contribute to understanding the role various factors have on health and disease. See http://www.nationalchildrensstudy.gov for additional information.

This repository provides a user-friendly tool to view Login Here and work with NCS questionnaire item sets. Each item set consists of one or more questions on a common, narrowlydefined topic and is accompanied by associated metadata, Survey such as source(s) of items, previous administration in NCS Username: Item pilot studies, and number of items in the item set. Users can perform keyword searches, search by study visit Bank (pregnancy, birth, 6 months, Core, etc.), target (child, adult caregiver, biological mother, biological father, or Password: household), or respondent (child, adult caregiver, biological mother, or biological father). Users can also view the content of item sets and create questionnaires by placing a series of item sets in a "shopping cart," and Login downloading the contents to an MS Word file. There are currently over 600 item sets and more than 6,000 survey questions.

Main Screen



Domain-Health Behaviors



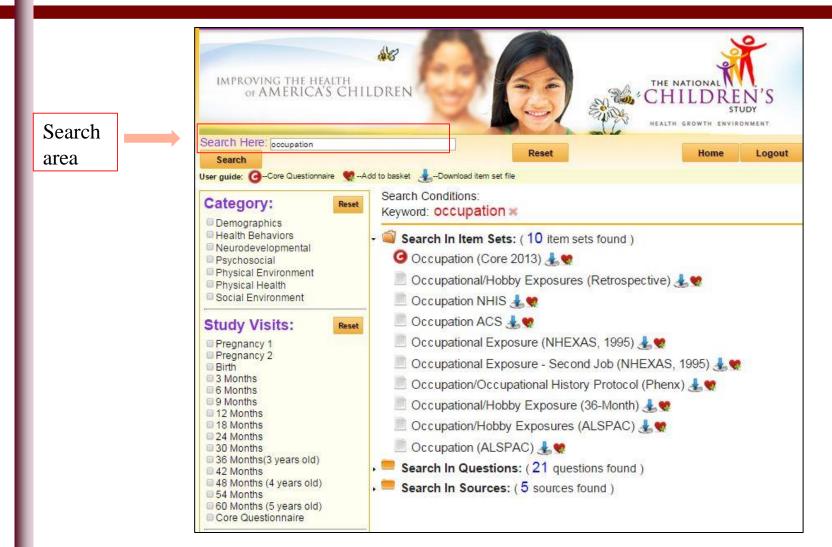
Subdomain-Health Insurance



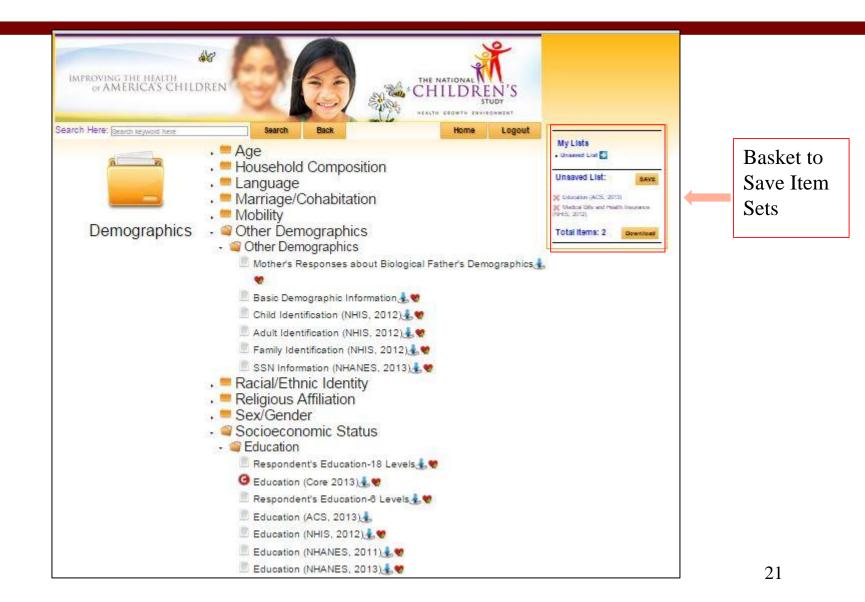
Item Set-Medical Bills and Health Insurance and Metadata

or AMERICA'S CHILDREN	CHILDREN'S
Export Close	Home Logout
Measurement Category: Health Behaviors Nomain: Health Care Use/Access Nub-Domain: Health Insurance	
item Set: Medical Bills and Health Insurance (NMIS, 2012) Proprietary: No icale: No	Metada
iore: No /anguard: No itudy Visits: None	
Target: Adult Caregiver; Biological Mother; Biological Father Respondent: Adult Caregiver; Biological Mother; Biological Father Comments: None Number of Items: 2	
wource: National Health Interview Survey (NHIS), 2012 Medical Bills and Health Insurance (NHIS,	2012)
//BNH01. If you get sick or have an accident, how worried are you that y medical bills? Are you very worried, somewhat worried, or not at	you will be able to pay your
<1-3,R,D>[goto AHICOMP]	
Very worried. Somewhat worried. Not at all worried. Refused. Don't know.	.2 .3 .7
/BNH02. In regard to your health insurance or health care coverage, how Is it better, worse, or about the same?	<pre>/ does it compare to a year ago?</pre>
<1,2,3,R,D>[goto ARXPR_1]	
Better	.1 .2 .3

Search Feature



Basket Feature



Final Questionnaire

Content:

- 1. Family Income-Long Version
- 2. Names of Family Members (NHANES, 2013)
- 3. Education (ACS, 2013)
- 4. Medical Bills and Health Insurance (NHIS, 2012)

4 Item sets merged

Family Income-Long Version

Measurement Category: Demographics Domain: Socioeconomic Status Sub-Domain: Income Item Set: Family Income-Long Version

FILV01. What was the total combined income of all members of this family over the past year, including salaries, or other earnings interest, retirement, and so on for all household members? This includes money from jobs, net income from business, farm, or rent, pensions, dividends, interest, social security payments and any other money income received by members of your FAMILY who are 15 years or older.

INTERVIEW INSTRUCTIONS:

Remember, a family is a group of two or more people who live together and who are related by birth, marriage, or adoption.

Source: NCS, T1 Survey

Less than \$5,000	1(FILV03)
\$5,000 to \$7,499	2(FILV03)
\$7,500 to \$9,999	3(FILV03)
\$10,000 to \$12,499	4(FILV03)
\$12,500 to \$14,999	5(FILV03)
\$15,000 to \$19,999	6(FILV03)
\$20,000 - \$24,999	7 (FILV03)
\$25.000 - \$29.999	8(FILV03)

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