

National Children's Study Assignment Project Exam Help Teaching Database User Manual

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Version 2.0

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NICHD NCS Program Office

1. Study Background

The National Children's Study (NCS) Vanguard Study was a pilot for the planned Main Study cohort and was started in 2009. The study aimed to evaluate environmental influences on child health and development. The Vanguard Study tested different recruitment strategies in 43 counties across 31 states throughout the U.S.

The study enrolled over 5,400 birth families and followed them through 2014. NCS collected prenatal, perinatal, and early childhood data up to age 5. At protocol-specified study visits, questionnaires and interviews, neuro-psychosocial and cognitive assessments, and physical examination data were collected, along with nearly 19,000 biological and 4,000 environmental primary samples from which a sample repository of over 220,000 items was created.

2. Teaching Database

In addition to the data available for researchers, the NCS Archive provides the NCS Teaching Database comprised of a base child-level data set and several topic-related modules. This data is derived from files available within the NCS Archive and is based on real data collected during the NCS Vanguard Study.

The purpose of the Migethbate is to project and analyses. It is freely available as a resource to supplement classroom examples and student academic projects. Those interested in learning more about the purpose and student academic projects are encouraged to visit the NCS Archive website (https://resarchive.s-3.net) and register for full site access.

Disclaimer: The NCS Textune data as interesting for the content within the NCS base dataset and content modules is unsuitable for publication purposes.

Specific programming techniques were used to make these data public downloadable files.

3. Child Dataset

Filename: NCS_Teaching_Child_V1_1
Available Formats: .sas7bdat, .csv

The Child dataset contains 5,604 records, each record representing a child with a unique child identifier CHILD_PIDX. The CHILD_PIDX then may be used to link to the modules described below. Each record also contains the mother's identifier MOM_PIDX that is not unique since siblings and children of multiple births exist on the Child dataset. The data topics included at child-level are birth measurements, demographics, and mother's socio-economic characteristics and demographics. Community-level characteristics are included based on the American Community Survey (ACS). To protect confidentiality, only the birth quarter and year are provided. Similarly, geographic characteristics only include the census region (midwest, northeast, south, west) and an indicator whether the participant's address is within a metropolitan area.

Several ACS characteristics have been merged to the child dataset to capture community information on citizenship, foreign-born population, income, household characteristics, educational attainment, and

race-ethnicity. To avoid disclosure of the participants' communities all ACS data have been converted to deciles (< 10 percent, 10 to < 20 percent, etc.). The codebook formats include the corresponding scores associated with each decile range.

3.1 Dataset Variables

Variable	Type	Length	Label	
CHILD_PIDX	Char	9	Participant ID of the Child (Encrypted)	
MOM_PIDX	Char	9	Participant ID of the Mother (Encrypted)	
PSU_IDX	Char	4	Primary Sampling Unit ID (Encrypted)	
RECRUITTYPE	Num	8	Mother's Recruitment Strategy	
CHILD_SEX	Num	8	Child's sex	
CHILD_DOB_YEAR	Num	8	Child's year of birth	
CHILD_DOB_QTR	Num	8	Child's quarter within the year of birth	
CHILD_RACE	Num	8	Child's race (5 categories)	
CHILD_ETHNICITY	Num	8	Child's ethnicity (Hispanic or not Hispanic)	
GESTATIONAL_AGE	Num	8	Child's gestational age at birth (5 categories)	
BABY_WEIGHT	Num	8	Baby's birth weight (9 categories)	
MULTIPLE	Num	8	Was Child part of a birth with multiple children (e.g., twins)?	
SIBLINGS	Num	8	Did Child have an enrolled NCS sibling from a separate birth?	
WITHDREW	Num	8	Child was withdrawn from the study	
MOM_AGE .	Num	8	Mother's age at Child's birth	
MOM_RACE A SST	ON irh	8 C 1	Race of Childs not er to ca egores 7	
MOM_ETHNICITY	Num	8	Ethnicity of Child's mother	
MOM_MARISTAT	Num	8	Mother's marital status collected at the pregnancy visit (4 categories)	
MOM_EDUCATION	Num	8	Mother's education level collected at the pregnancy visit (6 categories)	
MOM_INSURANCE	Nurh	%C • /	Mother's health insurance coverage collected at the pregnancy visit (5	
_	IILL	JS.//	lalegaries/ICS.COIII	
SURVEY_LANG	Num	8	Interview language used during the birth visit	
HOUSEHOLD_INCOME	Num	8	Household income collected at the pregnancy visit (4 categories)	
CENSUS_REGION	Char	10	Census Region	
MSA	Num <u>C</u>	h'h	At dress within Me in prolitan Statistical Area (MSA)	
CITIZENSHIP_PERC	Num	8	2009-2013 ACS 5-year estimate of non-citizen residents (percentile)	
FOREIGN_BORN_PERC	Num	8	2009-2013 ACS 5-year estimate of foreign-born population (percentile)	
HH_TYPE_PERC	Num	8	2009-2013 ACS 5-year estimate of population under 18 years in a non-family	
			household (percentile)	
INCOME_PERC	Num	8	2009-2013 ACS 5-year estimate of median household income (percentile)	
POVERTY_PERC	Num	8	2009-2013 ACS 5-year estimate of poverty status: population below 100%	
			federal poverty limit (percentile)	
TENURE_PERC	Num	8	2009-2013 ACS 5-year estimate of owner-occupied households (percentile)	
LING_ISO_PERC	Num	8	2009-2013 ACS 5-year estimate of linguistically-isolated households	
			(percentile)	
WNH_PERC	Num	8	2009-2013 ACS 5-year estimate of white non-Hispanic households	
			(percentile)	
AFAMNH_PERC	Num	8	2009-2013 ACS 5-year estimate of African-American non-Hispanic households	
			(percentile)	
ASNH_PERC	Num	8	2009-2013 ACS 5-year estimate of Asian non-Hispanic households (percentile)	
HISP_PERC	Num	8	2009-2013 ACS 5-year estimate of Hispanic households (percentile)	
OTHERNH_PERC	Num	8	2009-2013 ACS 5-year estimate of Other non-Hispanic households	
			(percentile)	
LESSTHANHS_PERC	Num	8	2009-2013 ACS 5-year estimate of population with less than high school	
			education (percentile)	
HSPLUS_PERC	Num	8	2009-2013 ACS 5-year estimate of high school or higher education	
			(percentile)	

4. Modules

Each module contains an encrypted participant identifier (CHILD_PIDX) that can be used to link to the base dataset. In addition, age at the time of the interview (CHILD_AGE or CHILD_ADJ_AGE) and interview visit (VISIT) can be found in each module. Not all variables were collected for every child participant enrolled in NCS, and some were collected as "don't know" and "refused". All missing values, including the "don't know" and "refused", are indicated by ".M".

To link the Child dataset to a teaching Module, please refer to the following SAS code provided below:

```
PROC SORT DATA=[CHILD DATASET]; BY CHILD PIDX; RUN;
PROC SORT DATA=[MODULE DATASET]; BY CHILD PIDX; RUN;
DATA [NEW];
MERGE CHILD (IN=A) MODULE (IN=B);
BY CHILD PIDX;
 IF A AND B;
RUN;
 -OR-
PROC SQL;
CREATE STABLE THE SELECT A SEL
                                                                                                                                          t Project Exam, Help
 VARIABLES OF INTEREST]
 FROM
 (SELECT * FROM [CHILD DATASET]) AS A INNER JOIN \frac{1}{1}
  (SELECT * FROM [MODULE DATASET]) AS B
 ON A. CHILD PIDX=B. CHILD PIDX;
 OUIT;
                                                                         WeChat: cstutorcs
```

4.1 Anthropometric Measures

Filename: NCS_Teaching_Anthro_V1
Available Formats: .sas7bdat, .csv

The Anthropometry module contains a battery of physical measures collected at the 6-month, 12-month, 24-month and 36-month interviews. The NCS used standardized procedures and equipment to collect precise body measurement data. This file contains 11 variables and 2,795 observations from 2,204 child participants. Children in this file can have up to four observations across the four study visits (approximately 35% of children have two or more records). To account for children born prematurely, an adjusted age variable is provided (CHILD_ADJ_AGE) on the file. Child's weight in kilograms (kg) (WEIGHT); length of the upper arm (humerus) in centimeters (cm) (UPPER_ARM_LENGTH); and mid upper arm (UPPER_ARM_CIRC), waist (WAIST_CIRC), and head (HEAD_CIRC) circumference (cm) were measured at all four study visits. Recumbent length (cm) (LENGTH) was measured from the 6-month interviews to the 24-month interviews. Standing height (cm) (HEIGHT) was measured at the 24-month and 36-month interviews. Per recommendation by the CDC, Body Mass Index (kg/m²) (BMI) was calculated only for children 24 months of age or older. BMI was calculated by dividing the weight measurement by recumbent length or standing height (converted to meters) squared.

4.1.1 Dataset Variables

Variable	Туре	Length	Label
CHILD_PIDX	Char	9	Participant ID of the Child (Encrypted)
CHILD_ADJ_AGE	Num	8	Childs age at time of interview (Months) – adjusted for prematurity
VISIT	Num	8	Study Interview
WEIGHT	Num	8	Weight (kg)
LENGTH	Num	8	Recumbent length (cm) (not measured at 36-month)
HEIGHT	Num	8	Standing height (cm) (not measured at 6-month and 12-month)
ВМІ	Num	8	Body Mass Index (BMI) (weight(kg)/height(m) ²) (not calculated at 6-month and 12- month)
UPPER_ARM_LENGTH	Num	8	Upper arm (humerus) length (cm)
UPPER_ARM_CIRC	Num	8	Mid upper arm circumference (cm)
WAIST_CIRC	Num	8	Waist circumference (cm)
HEAD_CIRC	Num	8	Head circumference (cm)

4.2 Sleep Routine

Filename: NCS_Teaching_Sleep_V1

Available Formats: .sas7bdat, .csv

The Sleep Rough the partial configuration of the concurrence the second at the 3-month, 6-month, 18-month, 24-month, 30-month, 36-month and 42-month visit interviews. This file contains 6 variables and 18,133 observations from 5,301 participants. Children in this file may have up to seven observations across the seven study visits (approximately 91% of participants have two or more records) that was collected on the child sleeps at night (SLEEP_HRS_NIGHT), how often the child is difficult when put to bed (SLEEP_DIFFICULT), and how often the child wakes up during the night (SLEEP_THROUGH). The variable SLEEP_THROUGH was not fielded at the 3-month visit.

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4.2.1 Dataset Variables

Variable	Туре	Length	Label
CHILD_PIDX	Char	9	Participant ID of the Child (Encrypted)
CHILD_ADJ_AGE	Num	8	Childs age at time of interview (Months) – adjusted for prematurity
VISIT	Num	8	Study Interview: 3=3-month visit, 6=6-month visit,42=42-month visit
SLEEP_HRS_NIGHT	Num	8	How many hours does the child sleep at night?
SLEEP_DIFFICULT	Num	8	How often is the child difficult when he/she is put to bed? (5 categories)
SLEEP_THROUGH	Num	8	How often does the child wake at night? (not asked at 3-month) (5 categories)

4.3 Infant Feeding

Filename: NCS_Teaching_Feeding_V1

Available Formats: .sas7bdat, .csv

The Infant Feeding module contains information regarding feeding habits of the child. Infant feeding habits were collected at the 6-month and 12-month visit interviews. This file contains 9 variables and 6,115 observations from 3,918 participants. Children in this file may have two observations across the two study visits (approximately 56% of participants have two records). Information collected during both the 6-month and 12-month interviews include age when the baby stopped consuming breast milk

(BREAST_STOP), how often baby is fed formula (FORMULA) and age when baby was first fed formula on a regular basis (FORMULA_AGE). At the 6-month visit, information regarding if the baby was ever breastfed (BREAST_FEED) and if the baby is currently being breastfed (BREAST_FEED_NOW) was collected. At the 12-month visit, participants were asked how often the baby is fed breast milk (BREAST_MILK).

4.3.1 Dataset Variables

Variable	Туре	Length	Label
CHILD_PIDX	Char	9	Participant ID of the Child (Encrypted)
CHILD_ADJ_AGE	Num	8	Childs age at time of interview (Months) – adjusted for prematurity
VISIT	Num	8	Study Interview: 3=3-month visit, 6=6-month visit,42=42-month visit
BREAST_FEED	Num	8	Was baby ever breastfed? (not asked at 12-Month) 1=Yes, 2=No
BREAST_FEED_NOW	Num	8	Is baby currently being breastfed? (not asked at 12-Month) 1=Yes, 2=No
BREAST_MILK	Num	8	In the past 7 days, how often was baby fed breast milk? (total count) (not asked at 6-month)
BREAST_STOP	Num	8	How old was baby when participant completely stopped feeding baby breast milk? (in weeks)
FORMULA	Num	8	In the past 7 days, how often was baby fed formula? (total count)
FORMULA_AGE ASSIS	nme	ent	Categorius David when first from formulaer padaily basis? (9

4.4 Child Healthhttps://tutorcs.com

Filename: NCS_Teaching_ChildHealth_V1
Available Formats: NCS_Teaching_ChildHealth_V1

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The Child Health module contains information regarding frequently occurring child health conditions. Data for this module were collected at the 6-month, 12-month, 18-month, and 24-month visit interviews. This file contains 11 variables and 14,445 observations from 5,189 unique children. Children in this file may have up to four observations across the four study visits. Approximately 87% of the children have data from at least two interviews; approximately 33% have data from all four visits. The variable VISIT defines the visit interview. Across all four visits, variables collected are CHILD_AGE (child's age in months at time of interview), VISIT_WT (child's weight in pounds at most recent well-child visit or checkup), CHILD_HEALTH (caregiver's characterization of child's health), RESPIRATORY (in the last three months – since birth for 6-month visit – has child had wheezing or whistling in the chest?), and FEVER (in the last three months – since birth for 6-month visit – how many days has child had a fever over 101 degrees, not relating to receiving immunizations?).

At the 6-month and 12-month visits, caregivers were asked in the last three months (since birth for the 6-month visit) has child had diarrhea or vomiting (GASTRO) and in the last three months (since birth for 6-month visit) has child had an ear infection (EAR_INFECTION). At the 18-month and 24-month visits, caregivers were asked in the last three months, has child had frequent or repeated diarrhea (DIARRHEA) and in the last three months, has child had three or more ear infections (EAR_INFECTION_FREQ).

4.4.1 Dataset Variables

Variable	Туре	Length	Label
CHILD_PIDX	Char	9	Participant ID of the Child (Encrypted)
CHILD_AGE	Num	8	Childs age at time of interview (Months)

VISIT	Num	8	Study Interview
VISIT_WT	Num	8	What was child's weight at most recent well-child visit or checkup (lbs)?
CHILD_HEALTH	Num	8	How would you categorize child's health?
GASTRO	Num	8	In the last 3 months (since birth for 6 month visit), has child had diarrhea or vomiting?
DIARRHEA	Num	8	In the last 3 months, has child had frequent or repeated diarrhea? (asked at 18 and 24 month visits)
EAR_INFECTION	Num	8	In the last 3 months (since birth for 6 month visit), has child had an ear infection?
EAR_INFECTION_FREQ	Num	8	In the last 3 months, has child had 3 or more ear infections? (asked at 18 and 24 month visits))
RESPIRATORY	Num	8	In the last 3 months (since birth for 6 month visit), has child had wheezing or whistling in the chest?
FEVER	Num	8	In the last 3 months (since birth for 6 month visit), how many days has child had a fever over 101 degrees, not related to receiving immunizations?

4.5 Mother's Pregnancy Health

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Filename: NCS_Teaching_MomPregHealth_V1

Available Formats: .sas7bdat, .csv

The Mother's Pregnancy Health poule conditions prior to and during pregnancy. Data for this module were aggregated across multiple pregnancy visit interviews. If a mother reported a condition on any of the pregnancy visit interviews, then the flag for the condition was assigned a 'Yes'. Wis file contains 19 variables for 4,314 mothers, each mother having only one record. When linking to a child file, a mother having the condition in the case of twins or multiple pregnancies.

This file contains the mother's self-reported health status (HEALTH) and body mass index (BMI) based on self-reported height and a pre-pregnancy weight. BMI is stored on the file as both a continuous variable (BMI) and a categorical variable (BMI_CAT) having six categories. If a woman has ever been diagnosed with high blood pressure (HIGHBP_NOTPREG) when not pregnant, hyperthyroidism (THYROID), and asthma (ASTHMA) then these are reported on the file. The conditions reported during the pregnancy include diabetes (DIABETES), high blood pressure (HIGHBP_PREG), preeclampsia (PREECLAMPSIA), early labor or premature labor (EARLY_LABOR), anemia or low blood count (ANEMIA), bladder or kidney infection (KIDNEY), severe nausea or vomiting known as hyperemesis (NAUSEA), Rh disease or isoimmunization (RH_DISEASE), protein in the urine (URINE), infection of the vagina or bacterial vaginosis (VAGINOSIS), and infection with bacteria called Group B strep (GROUP_B). Additionally the current smoking status of the mother is included (CIG_NOW).

4.5.1 Dataset Variables

Variable	Туре	Length	Label
MOM_PIDX	Char	9	Participant ID of the Mother (Encrypted)
HEALTH	Num	8	Participant's personal description of current general health status
BMI	Num	8	Participant's Pre-Pregnancy Body Mass Index (BMI)

BMI_CAT	Num	8	Participant's Pre-Pregnancy Body Mass Index (BMI) – Categorical variable
THYROID	Num	8	Has Participant ever been told by a doctor or other health care provider that they had hypothyroidism (under active thyroid)?
HIGHBP_NOTPREG	Num	8	Has Participant ever been told diagnosed with hypertension or high blood pressure when Participant was not pregnant?
ASTHMA	Num	8	Has Participant ever been told by a doctor or other health care provider that they had asthma?
DIABETES	Num	8	Has Participant ever been told by a doctor or other health care provider that they had Diabetes?
HIGHBP_PREG	Num	8	At any time during pregnancy, has a doctor or other health care provider told Participant they have High Blood Pressure?
PRECLAMPSIA	Num	8	At any time during pregnancy, has a doctor or other health care provider told Participant they have Preeclampsia?
EARLY_LABOR	Num	8	At any time during pregnancy, has a doctor or other health care provider told Participant they have early or premature labor?
ANEMIA	Num	8	At any time during pregnancy, has a doctor or other health care provider told Participant they have anemia or low blood count?
KIDNEY	Num	8	At any time during pregnancy, has a doctor or other health care provider told Participant they have a bladder or kidney infection?
NAUSEA	Num	8	At any time during pregnancy, has a doctor or other health care provider told Participant they have severe nausea or vomiting hyperemesis)?
RH_DISEASE ASS18	nme	ant	At any line during pregnancy, has a coctor of other health care provider told Participant they have Rh disease or isoimmunization?
URINE 1	Num	8	At any time during pregnancy, has a doctor or other health care provider told Participant they have protein in their urine?
VAGINOSIS	Nu DS	://tu	transitions duling pregnancy, has a doctor or other health care provider told Participant they have an infection of the vagina with bacteria (bacterial vaginosis)?
GROUP_B	VeC	hat	At any time during pregnancy, has a doctor or other health care provider tall participant they have an infection with bacteria called Group-B strep:
CIG_NOW	Num	8	Does Participant currently smoke cigarettes?