Abt Associates Inc.

Documentation and Codebook for the Main Analysis File:

The Study of Prenatal and Infant Exposure to Thimerosal and Neuropsychological Outcomes at Ages 7-10 Years

September 19th, 2007

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This documentation was prepared by Cristofer Price and Laura Simpson of Abt Associates Inc. for the Immunization Safety Office (ISO) of the Centers for Disease Control and Prevention (CDC) Atlanta, GA 30333. Questions about the documentation, substantive questions, or technical issues regarding the data file should be directed to the CDC ISO, MS D26, 1600 Clifton Road, Atlanta, Georgia 30333 (404-639-8256).

Documentation and Codebook
for the
Main Analysis File

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1. Introduction to the Main Analysis File

The Thimerosal and Neuropsychological Outcomes Main Analysis File (hereafter called *the Main Analysis File*) contains is the analytical file that was used for all of the analyses reported in the *The Study of Infant Environmental Exposure to Thimerosal and Neuropsychological Outcomes at Ages 7 to 10 Years, Volumes I and II* (hereafter called *the Technical Report*).

The Main Analysis File is one of three data files included in the data set. All results presented in the Technical Report can be reproduced using the data contained within the Main Analysis File. The Main Analysis File contains n=1,047 records, corresponding to one record per child. The remaining two data files contained within the set are provided to give researchers a rich source of data on the timing, sources, and amount of prenatal and postnatal exposure to ethylmercury from thimerosal-containing vaccines and immune globulins. Those data sets are explained in the documents titled "*Documentation and Codebook for the Prenatal Ethlymercury Exposures File*", and "*Documentation and Codebook for the Child Vaccination Histories File*". The three data files can be linked by merging on the variable *ChildID*, which is included in each of the three data files.

The remainder of the current document is organized as follows. Section 2 is a listing showing the names, labels, minimum, maximum, and number of missing values for each of the numeric variables included in the Analysis File. All but two of the variables on the Analysis File are numeric variables. The two character variables included on the data set (*ChildID,* and *Site*) are described subsequently in Section 3. The listing of variables in Section 2 is intended to give the user a quick overview of the numeric variables included in the file. Section 3 provides detail on the data sources, valid values, and construction of all variables included in the file.

In order to reproduce a model result presented in the Technical Report, the data user will need to find the corresponding model specification presented in Section 9 of the Technical Report, and fit the model using the covariates specified in Exhibit 8.2.2 of the Technical Report. The user will note that in the current document, some of the covariates listed in Sections 2 and 3 have names that have suffixes that range from 1 to 10, e.g., *PctPoverty1, PctPoverty2, …, PctPoverty10.* These correspond to multiple imputations of missing values. Imputation of missing values is explained in Section 7.5 of the Technical Report. The single imputation models presented in the Technical Report always used the covariate with the suffix "1", e.g., *PctPoverty1.* Multiple imputation models used all ten variables, e.g., *PctPoverty1, PctPoverty2, …, PctPoverty10.* The multiple imputation models are presented in Section 9.2.2.4.2 of the Technical Report, all other model results presented in the Technical Report used single imputation models. Variables with the suffix "*_Imp*", indicate records with imputed values for the corresponding variable. For example, records that have imputed values for *PctPoverty* have the value 1 on the *PctPoverty_Imp* variable.

Variables with the prefix "*Std_*" are used to convert model parameter estimates (beta coefficients) into standardized regression coefficients. As explained in Section 8.5 of the Technical Report, standardized regression coefficients were calculated by multiplying the parameter estimate from the model (the unstandardized coefficient) by the ratio of the standard deviation of X (the exposure variable) to the standard deviation of Y (the outcome variable). The variables with the "*Std_*" prefix are the standard deviation of the corresponding variable. For example, the variable *Std_Exp07mos* contains the value of the standard deviation of the birth to seven months cumulative exposure variable, i.e. the standard deviation of *Exp07mos*. To calculate the standardized regression coefficient from a model that, for example, estimates the relationship between cumulative exposure from birth to seven months and performance on the Boston Naming test, one would multiply the regression coefficient from the model by the ratio *Std_Exp07mos* / *Std_LgBNameAvRs*.

In Section 3.5 of the current document, the variables that were modeled as outcomes are highlighted with level-4 headings, and appear as level-4 headings in the table of contents. Related variables, that enrich the data set, but that were not used in the models do not have level-4 headings. For example, the variable *TC_CAMotorYN* has a level-4 heading because it is the binary indicator of assessor rated motor tics that was used for the logistic regression models reported in the Technical Report. A related variable, *TC_CAMotorRS* is a count of the number of motor tics reported by the clinical assessor during the testing session. The former variable was created from the latter. The latter is included to enrich the data set, and is documented in the same section as the former, but the latter is not highlighted with a level-4 heading.

For additional detail on the creation of measures of exposure to ethylmercury from vaccines and immune globulins, the reader is urged to read the companion documents documents titled "*Documentation and Codebook for the Prenatal Ethlymercury Exposures File*", and "*Documentation and Codebook for the Child Vaccination Histories File*". For additional background and detail regarding outcomes and covariates, the reader is urged to read the Technical Report.

2. List of the Variables Included on the Data Set

Exhibit 2.1. List of Variables Included in the Analysis File

Variable	Label	n	n Miss	Min	Max
ChildID	Child ID	Character variable, values are sequential from 0001 to 1047			
Thimerosal Exposure Variables					
PreNatThimer	Total prenat merc from thimerosal	1047	0	0	100
Std_PreNatThimer	Standard Deviation PreNatThimer	1047	0	8.318	8.318
PreNatthimer_Alt	Alternative Tot prenat (for sensitivity analysis)	1047	0	0	100
Std_PreNatThimer_Alt	Standard Deviation PreNatThimer_Alt	1047	0	16.885	16.885
PN_Trunc	if PreNatThimer>25 then PN_Trunc=25	1047	0	0	25
Std_PN_Trunc	Standard Deviation PN_Trunc	1047	0	5.648	5.648
Amt01mos	Amt Merc birth-28 days	1047	0	0	37.5
Std_Amt01mos	Standard Deviation Amt01mos	1047	0	6.479	6.479
HepB	Amt/Wt(KGs) birth-28 days	1047	0	0	12.673
Std_HepB	Standard Deviation HepB	1047	0	1.911	1.911
HepBYN	1 of any hepB, 0 else	1047	0	0	1
Std_HepBYN	Standard Deviation HepBYN	1047	0	0.458	0.458
Exp17mos	Amt/Wt(KGs) 29-214 days	1047	0	0	33.77
Std_Exp17mos	Standard Deviation Exp17mos	1047	0	6.656	6.656
Amt17mos	Amt Merc 29-214 days	1047	0	0	187.5
Std_Amt17mos	Standard Deviation Amt17mos	1047	0	40.479	40.479
Exp07mos	Amt/Wt(KGs) birth-214 days	1047	0	0	38.269
Std_Exp07mos	Standard Deviation Exp07mos	1047	0	7.143	7.143
Amt07mos	Amt Merc birth-214 days	1047	0	0	187.5
Std_Amt07mos	Standard Deviation Amt07mos	1047	0	41.533	41.533
Concurrent Antibiotics Variables					
AbDays1_28	# days child on abiots in period 1-28 days	1047	0	0	28
AbDays29_214	# days child on abiots in period 29-214 days	1047	0	0	186
AbDays	# days child on abiots in period 1-214 days	1047	0	0	214
AbHepB	Concur abiots (ages 1-28)	1047	0	0	4.322
Std_AbHepB	Standard Deviation AbHepB	1047	0	0.637	0.637
AbExp17mos	Concur abiots (ages 29-214)	1047	0	0	32.862
Std_AbExp17mos	Standard Deviation AbExp17mos	1047	0	4.224	4.224

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Variable	Label	n	n Miss	Min	Max
AbExp07mos	Concur abiots (ages 1-214)	1047	0	0	32.862
Std_AbExp07mos	Standard Deviation AbExp07mos	1047	0	4.312	4.312
Covariates					
Child and Family Demographics					
ChildAge	Child Age (Yrs) at assessment	1047	0	7.072	10.998
sexmale	Sex of child 0=female, 1=male	1047	0	0	1
ChdBWT	Child Birth Weight	1047	0	2500	5542
ChdBWT_Grp	1=2500-2999,2=3000-3999s,3=4000+ grams	1047	0	1	3
ChdBWT_ImpFlg	1= imputed from Vac history and CDC growth charts	1047	0	0	1
ComputerExpr	0=None,1=Some,2=Much	1047	0	0	2
ComputerExpr_Imp	1 = Multiple imputation for missings	1047	0	0	1
KBITSUMImpVal1	Maternal KBIT IQ Score	1047	0	56	132
KBITSUMImpVal2		1047	0	56	132
KBITSUMImpVal3		1047	0	56	132
KBITSUMImpVal4		1047	0	56	132
KBITSUMImpVal5		1047	0	56	132
KBITSUMImpVal6		1047	0	56	132
KBITSUMImpVal7		1047	0	56	132
KBITSUMImpVal8		1047	0	56	132
KBITSUMImpVal9		1047	0	56	132
KBITSUMImpVal10		1047	0	56	132
KBITSUM_Imp	1 = Multiple imputation for missings	23	1024	1	1
MomIQ1	1=Lower third,2=Mid third,3=Upper third of IQ Distrbn	1047	0	1	3
MomIQ2	1=Lower third,2=Mid third,3=Upper third of IQ Distrbn	1047	0	1	3
MomIQ3	1=Lower third,2=Mid third,3=Upper third of IQ Distrbn	1047	0	1	3
MomIQ4	1=Lower third,2=Mid third,3=Upper third of IQ Distrbn	1047	0	1	3
MomIQ5	1=Lower third,2=Mid third,3=Upper third of IQ Distrbn	1047	0	1	3
MomIQ6	1=Lower third,2=Mid third,3=Upper third of IQ Distrbn	1047	0	1	3
MomIQ7	1=Lower third,2=Mid third,3=Upper third of IQ Distrbn	1047	0	1	3
MomIQ8	1=Lower third,2=Mid third,3=Upper third of IQ Distrbn	1047	0	1	3
MomIQ9	1=Lower third,2=Mid third,3=Upper third of IQ Distrbn	1047	0	1	3
MomIQ10	1=Lower third,2=Mid third,3=Upper third of IQ Distrbn	1047	0	1	3
HOME_TotalIndex	HOME_TotalIndex	1047	0	3	16
PctPoverty1	(Percent of poverty line)/100	1047	0	0.204	22.696

Exhibit 2.1. List of Variables Included in the Analysis File

Variable	Label	n	n Miss	Min	Max
PctPoverty2		1047	0	0.204	22.696
PctPoverty3		1047	0	0.204	22.696
PctPoverty4		1047	0	0.204	22.696
PctPoverty5		1047	0	0.204	22.696
PctPoverty6		1047	0	0.204	22.696
PctPoverty7		1047	0	0.204	22.696
PctPoverty8		1047	0	0.204	22.696
PctPoverty9		1047	0	0.204	22.696
PctPoverty10		1047	0	0.204	22.696
PctPoverty_Imp	1 = Multiple imputation for missings	1047	0	0	1
MomEduc	0=NoHS,1=HS/GED,2=SomColl,3=CollDegr	1047	0	0	3
SingleParent	Child lives in a single parent household(0/1)	1047	0	0	1
MatAgeCat	1=0-16, 2=17-39, 3=40+	1047	0	1	3
OlderSibs	Child has an older sibling (0/1)	1047	0	0	1
YoungerSibs	Child has a younger sibling (0/1)	1047	0	0	1
DayCareCentrImpVal1	# of center-based day care settings prior to KG	1047	0	0	9
DayCareCentrImpVal2		1047	0	0	9
DayCareCentrImpVal3		1047	0	0	9
DayCareCentrImpVal4		1047	0	0	9
DayCareCentrImpVal5		1047	0	0	9
DayCareCentrImpVal6		1047	0	0	9
DayCareCentrImpVal7		1047	0	0	9
DayCareCentrImpVal8		1047	0	0	9
DayCareCentrImpVal9		1047	0	0	9
DayCareCentrImpVal10		1047	0	0	9
DayCareCentr_Imp	1 = Multiple imputations for missings	1047	0	0	1
DayCareHomeImpVal1	# of home-based day care settings prior to KG	1047	0	0	14
DayCareHomeImpVal2		1047	0	0	14
DayCareHomeImpVal3		1047	0	0	14
DayCareHomeImpVal4		1047	0	0	14
DayCareHomeImpVal5		1047	0	0	14
DayCareHomeImpVal6		1047	0	0	14
DayCareHomeImpVal7		1047	0	0	14
DayCareHomeImpVal8		1047	0	0	14

Exhibit 2.1. List of Variables Included in the Analysis File

Variable	Label	n	n Miss	Min	Max
DayCareHomeImpVal9		1047	0	0	14
DayCareHomeImpVal10		1047	0	0	14
DayCareHome_Imp	1 = Multiple imputations for missings	1047	0	0	1
EngOnly	English only at home	1047	0	0	1
BFMthsCat	Breast Fed: 1=<1mo,2=1-6mos,3=6+mos	1047	0	0	2
RaceEth	1=Black 2=Hisp 3=White 4=Other	1047	0	1	4
SiteNumber	1=HMO-A 2=HMO-B 3=HMO-C 4=HMO-D	1047	0	1	4
Site	HMO-A HMO-B HMO-C HMO-D	Character variable			
Prenatal Exposures (non-mercury)					
PreNatNicotine_1	Used tobacco during pregnancy	1047	0	0	1
PreNatNicotine_2		1047	0	0	1
PreNatNicotine_3		1047	0	0	1
PreNatNicotine_4		1047	0	0	1
PreNatNicotine_5		1047	0	0	1
PreNatNicotine_6		1047	0	0	1
PreNatNicotine_7		1047	0	0	1
PreNatNicotine_8		1047	0	0	1
PreNatNicotine_9		1047	0	0	1
PreNatNicotine_10		1047	0	0	1
PreNatNicotine_Imp	1 = Multiple imputations for missings	1047	0	0	1
PreNatAlcohol_1	0=never - 4 heavy	1047	0	0	4
PreNatAlcohol_2		1047	0	0	4
PreNatAlcohol_3		1047	0	0	4
PreNatAlcohol_4		1047	0	0	4
PreNatAlcohol_5		1047	0	0	4
PreNatAlcohol_6		1047	0	0	4
PreNatAlcohol_7		1047	0	0	4
PreNatAlcohol_8		1047	0	0	4
PreNatAlcohol_9		1047	0	0	4
PreNatAlcohol_10		1047	0	0	4
PreNatAlcohol_Imp	1 = Multiple imputations for missings	1047	0	0	1
PreNatOccupLead_1		1047	0	0	1
PreNatOccupLead_2		1047	0	0	1
PreNatOccupLead_3		1047	0	0	1

Exhibit 2.1. List of Variables Included in the Analysis File

Variable	Label	n	n Miss	Min	Max
PreNatOccupLead_4		1047	0	0	1
PreNatOccupLead_5		1047	0	0	1
PreNatOccupLead_6		1047	0	0	1
PreNatOccupLead_7		1047	0	0	1
PreNatOccupLead_8		1047	0	0	1
PreNatOccupLead_9		1047	0	0	1
PreNatOccupLead_10		1047	0	0	1
PreNatOccupLead_Imp	1 = Multiple imputations for missings	6	1041	1	1
PreNatResiLead_1		1047	0	0	1
PreNatResiLead_2		1047	0	0	1
PreNatResiLead_3		1047	0	0	1
PreNatResiLead_4		1047	0	0	1
PreNatResiLead_5		1047	0	0	1
PreNatResiLead_6		1047	0	0	1
PreNatResiLead_7		1047	0	0	1
PreNatResiLead_8		1047	0	0	1
PreNatResiLead_9		1047	0	0	1
PreNatResiLead_10		1047	0	0	1
PreNatResiLead_Imp	1 = Multiple imputations for missings	8	1039	1	1
PreNatlead_1	Prenat lead from occup or residential	1047	0	0	1
PreNatlead_2		1047	0	0	1
PreNatlead_3		1047	0	0	1
PreNatlead_4		1047	0	0	1
PreNatlead_5		1047	0	0	1
PreNatlead_6		1047	0	0	1
PreNatlead_7		1047	0	0	1
PreNatlead_8		1047	0	0	1
PreNatlead_9		1047	0	0	1
PreNatlead_10		1047	0	0	1
PreNatIllDrug	1=Cocaine or Narcotic	1047	0	0	1
Prenatal Non-vaccine Mercury Exposures					
PreNatFish_1	1=Tuna, Ocean and Home Caught	1047	0	0	1
PreNatFish_2		1047	0	0	1

Exhibit 2.1. List of Variables Included in the Analysis File

Variable	Label	n	n Miss	Min	Max
PreNatFish_3		1047	0	0	1
PreNatFish_4		1047	0	0	1
PreNatFish_5		1047	0	0	1
PreNatFish_6		1047	0	0	1
PreNatFish_7		1047	0	0	1
PreNatFish_8		1047	0	0	1
PreNatFish_9		1047	0	0	1
PreNatFish_10		1047	0	0	1
PreNatFish_Imp	1 = Multiple imputations for missings	1047	0	0	1
PreNatTuna_1	Prenatal Tuna (0=none, 1=moderate, 2=high)	1047	0	0	2
PreNatTuna_2		1047	0	0	2
PreNatTuna_3		1047	0	0	2
PreNatTuna_4		1047	0	0	2
PreNatTuna_5		1047	0	0	2
PreNatTuna_6		1047	0	0	2
PreNatTuna_7		1047	0	0	2
PreNatTuna_8		1047	0	0	2
PreNatTuna_9		1047	0	0	2
PreNatTuna_10		1047	0	0	2
PreNatTuna_Imp	1 = Multiple imputations for missings	1047	0	0	1
PreNatAllMerc_1		1047	0	0	5
PreNatAllMerc_2		1047	0	0	5
PreNatAllMerc_3		1047	0	0	5
PreNatAllMerc_4		1047	0	0	5
PreNatAllMerc_5		1047	0	0	5
PreNatAllMerc_6		1047	0	0	5
PreNatAllMerc_7		1047	0	0	5
PreNatAllMerc_8		1047	0	0	5
PreNatAllMerc_9		1047	0	0	5
PreNatAllMerc_10		1047	0	0	5
PreNatFillings_1	Prenatal amalgams	1047	0	0	2
PreNatFillings_2		1047	0	0	2
PreNatFillings_3		1047	0	0	2
PreNatFillings_4		1047	0	0	2

Exhibit 2.1. List of Variables Included in the Analysis File

Variable	Label	n	n Miss	Min	Max
PreNatFillings_5		1047	0	0	2
PreNatFillings_6		1047	0	0	2
PreNatFillings_7		1047	0	0	2
PreNatFillings_8		1047	0	0	2
PreNatFillings_9		1047	0	0	2
PreNatFillings_10		1047	0	0	2
PreNatFillings_Imp	1 = Multiple imputations for missings	1047	0	0	1
PreNatHomePro_1	# Merc exp from therm, bulbs, switches etc.	1047	0	0	1
PreNatHomePro_2		1047	0	0	1
PreNatHomePro_3		1047	0	0	1
PreNatHomePro_4		1047	0	0	1
PreNatHomePro_5		1047	0	0	1
PreNatHomePro_6		1047	0	0	1
PreNatHomePro_7		1047	0	0	1
PreNatHomePro_8		1047	0	0	1
PreNatHomePro_9		1047	0	0	1
PreNatHomePro_10		1047	0	0	1
PreNatHomePro_Imp	1 = Multiple imputations for missings	1047	0	0	1
PreNatOrgMerc_1	# Merc containing contact lens, ear, eye, nasal	1047	0	0	4
PreNatOrgMerc_2		1047	0	0	4
PreNatOrgMerc_3		1047	0	0	4
PreNatOrgMerc_4		1047	0	0	4
PreNatOrgMerc_5		1047	0	0	4
PreNatOrgMerc_6		1047	0	0	4
PreNatOrgMerc_7		1047	0	0	4
PreNatOrgMerc_8		1047	0	0	4
PreNatOrgMerc_9		1047	0	0	4
PreNatOrgMerc_10		1047	0	0	4
PreNatOrgMerc_Imp	1 = Multiple imputations for missings	34	1013	1	1
Child Birth Conditions					
C5APGARImpVal1	5-minute apgar	1047	0	4	10
C5APGARImpVal2		1047	0	4	10
C5APGARImpVal3		1047	0	4	10
C5APGARImpVal4		1047	0	4	10

Exhibit 2.1. List of Variables Included in the Analysis File

Variable	Label	n	n Miss	Min	Max
C5APGARImpVal5		1047	0	4	10
C5APGARImpVal6		1047	0	4	10
C5APGARImpVal7		1047	0	4	10
C5APGARImpVal8		1047	0	4	10
C5APGARImpVal9		1047	0	4	10
C5APGARImpVal10		1047	0	4	10
C5APGAR_Imp	1 = Multiple imputations for missings	75	972	1	1
cMedicalHist_1	=1 if birth headCM +/- 2SD from Mean	1047	0	0	1
Child Medical Conditions					
IronDef_1	Anemia or iron deficiency	1047	0	0	1
ADHD_Meds	=1 if VSD_ADHD=1 OR Par Int ADHDMed	1047	0	0	1
ADHDstimulant	ADHD stim in 12 hrs prior to assessment	1047	0	0	1
ChdPICA_1	Child Pica	1047	0	0	1
ChdPICA_2		1047	0	0	1
ChdPICA_3		1047	0	0	1
ChdPICA_4		1047	0	0	1
ChdPICA_5		1047	0	0	1
ChdPICA_6		1047	0	0	1
ChdPICA_7		1047	0	0	1
ChdPICA_8		1047	0	0	1
ChdPICA_9		1047	0	0	1
ChdPICA_10		1047	0	0	1
ChdPICA_Imp	1 = Multiple imputations for missings	10	1037	1	1
Maternal Diagnoses					
MatLangDel	Maternal Language Delay	1047	0	0	1
MatSpeechDel	Maternal speech delay	1047	0	0	1
MatSTUTTER	Maternal stuttering	1047	0	0	1
MatADHD	Maternal ADHD	1047	0	0	1
MatTIC	Maternal tics	1047	0	0	0
Quadratic and Cubic Functions of Variables					
ChildAge2	ChildAge**2 (squared)	1047	0	50.011	120.955
ChildAge3	ChildAge**3 (cubed)	1047	0	353.674	1330.255
PctPoverty1_2	(PctPoverty1/100)**2 (squared)	1047	0	0.042	515.123
PctPoverty1_3	(PctPoverty1/100)**3 (cubed)	1047	0	0.009	11691.4

Exhibit 2.1. List of Variables Included in the Analysis File

Variable	Label	n	n Miss	Min	Max
HOME_TotalIndex2	HOME_TotalIndex**2 (squared)	1047	0	9	256
HOME_TotalIndex3	HOME_TotalIndex**3 (cubed)	1047	0	27	4096
Spline Terms					
Spline9	=1 if ChildAge > 9.0; =0 Else	1047	0	0	1
ChildAge_Spline9	Childage * Spline9	1047	0	0	10.998
ChildAge2_Spline9	Childage2 * Spline9	1047	0	0	120.955
Outcomes					
Speech and Language					
Lg_BNameAvRS	Boston Naming Raw	1045	2	14	58
Std_Lg_BNameAvRS	Standard Deviation Lg_BnameAvRS	1047	0	7.987	7.987
Lg_SpNameAvRS	NEPSY Speed Naming Raw	1040	7	1	42
Std_Lg_SpNameAvRS	Standard Deviation Lg_SpnameAvRS	1047	0	8.126	8.126
Lg_SpNameAvSS	NEPSY Speed Naming Scaled	1040	7	1	16
Lg_CmpInstAvRS	NEPSY Comp Instr. Raw	1034	13	12	28
Std_Lg_CmpInstAvRS	Standard Deviation Lg_CmpInstAvRS	1047	0	2.828	2.828
Lg_CmpInstAvSS	NEPSY Comp Instr. Scaled	1034	13	1	17
Lg_FormSentAvRS	CELF Form. Sent. Raw	1038	9	0	44
Std_Lg_FormSentAvRS	Standard Deviation Lg_FormSentAvRS	1047	0	6.721	6.721
Lg_FormSentAvSS	CELF Form. Sent. Scaled	1038	9	3	17
VM_RecallAvRS	CELF Recall Sent Raw	1044	3	5	78
Std_VM_RecallAvRS	Standard Deviation VM_RecallAvRS	1047	0	14.325	14.325
VM_RecallAvSS	CELF Recall Sent Scaled	1044	3	3	17
TC_GFTA_RS	Speech Raw Score	1025	22	0	18
Std_TC_GFTA_RS	Standard Deviation TC_GFTA_RS	1047	0	1.881	1.881
TC_GFTA_PCC	GFTA PCC	1023	24	79.34	100
Std_TC_GFTA_PCC	Standard Deviation TC_GFTA_PCC	1047	0	1.807	1.807
TC_GFTA_iSS	Speech Imputed Scale Score	1025	22	67	109
St_CAStuttYN	Stut CA 0=None/Very Mild, 1=Mild-Severe	1043	4	0	1
St_CAStuttRS	Stutter Assessor Rating	1043	4	0	5
St_PStuttYN	Stut Parent 0=None/Very Mild, 1=Mild-Severe	1035	12	0	1
St_PStuttRS	Stutter Parent Rating	1035	12	0	7
St_TStuttYN	Stut Teacher 0=None/Very Mild, 1=Mild-Severe	728	319	0	1
St_TStuttRS	Stutter Teacher Rating	728	319	0	7
Verbal Memory					

Exhibit 2.1. List of Variables Included in the Analysis File

Variable	Label	n	n Miss	Min	Max
VM_ListAAvRS	CVLT-C List A	1046	1	0	71
Std_VM_ListAAvRS	Standard Deviation VM_ListAAvRS	1047	0	9.734	9.734
VM_ListAAvSS	CVLT-C List A	1046	1	20	80
VM_ShortFreeAvRS	CVLT-C Short/Free Raw	1047	0	0	15
Std_VM_ShortFreeAvRS	Standard Deviation VM_ShortFreeAvRS	1047	0	2.733	2.733
VM_ShortFreeAvSS	CVLT-C Short/Free Scaled	1047	0	-3.5	2.5
VM_ShortCueAvRS	CVLT-C Short/Cued Raw	1045	2	1	15
Std_VM_ShortCueAvRS	Standard Deviation VM_ShortCueAvRS	1047	0	2.400	2.400
VM_ShortCueAvSS	CVLT-C Short/Cued Scaled	1045	2	-3.5	3
VM_LongFreeAvRS	CVLT-C Long /Free Raw	1044	3	0	15
Std_VM_LongFreeAvRS	Standard Deviation VM_LongFreeAvRS	1047	0	2.540	2.540
VM_LongFreeAvSS	CVLT-C Long /Free Scaled	1044	3	-4	3
VM_LongCueAvRS	CVLT-C Long /Cued Raw	1043	4	1	15
Std_VM_LongCueAvRS	Standard Deviation VM_LongCueAvRS	1047	0	2.472	2.472
VM_LongCueAvSS	CVLT-C Long /Cued Scaled	1043	4	-3.5	2.5
VM_CMS1AvRS	CMS Stories 1(Immed) Raw	1038	9	0	77
Std_VM_CMS1AvRS	Standard Deviation VM_CMS1AvRS	1047	0	15.538	15.538
VM_CMS1AvSS	CMS Stories 1(Immed) Scaled	1038	9	1	19
VM_CMS2AvRS	CMS Stories 2(Delay) Raw	1037	10	0	76
Std_VM_CMS2AvRS	Standard Deviation VM_CMS2AvRS	1047	0	15.143	15.143
VM_CMS2AvSS	CMS Stories 2(Delay) Scaled	1037	10	1	19
Achievement					
Rd_LWIDAvRS	WJIII Letter Word Raw	16	73	16	73
Std_Rd_LWIDAvRS	Standard Deviation RD_LWIDAvRS	9.382	9.382	9.382	9.382
Rd_LWIDAvSS	WJIII Letter Word Scaled	47	143	47	143
Fine Motor Coordination					
FM_PegDAvRS	G Pegboard Dom Hand Raw	1045	2	21	300
Std_FM_PegDAvRS	Standard Deviation FM_PegDAvRS	1047	0	27.492	27.492
FM_PegNDAvRS	G Pegboard NonDom Hand Raw	1039	8	20	300
Std_FM_PegNDAvRS	Standard Deviation FM_PegNDAvRS	1047	0	31.656	31.656
FM_TapDAvRS	Finger Tap Dom Hand Raw	1037	10	15.6	107
Std_FM_TapDAvRS	Standard Deviation FM_TapDAvRS	1047	0	6.814	6.814
FM_TapNDAvRS	Finger Tap NonDom Hand Raw	1034	13	15	86
Std_FM_TapNDAvRS	Standard Deviation FM_TapNDAvRS	1047	0	6.255	6.255

Exhibit 2.1. List of Variables Included in the Analysis File

Variable	Label	n	n Miss	Min	Max
<mark>Visual Spatial Ability</mark>					
VP_CopyAvRS	Stanford Binet Copying Raw	1038	9	3	28
Std_VP_CopyAvRS	Standard Deviation VP_CopyAvRS	1047	0	2.994	2.994
VP_CopyAvSS	Stanford Binet Copying Scaled	1038	9	26	70
<mark>Attention / Executive Functioning</mark>					
IP_GDSCorAvRS	GDS Vigilance CorrectResp Raw	1042	5	0	45
Std_IP_GDSCorAvRS	Standard Deviation IP_GDSCorAvRS	1047	0	5.149	5.149
IP_GDSErrAvRS	GDS Vigilance Comm.Errors Raw	1042	5	0	162
Std_IP_GDSErrAvRS	Standard Deviation IP_GDSErrAvRS	1047	0	13.289	13.289
VM_DigitFAvRS	WISC III Digit Forward Raw	1045	2	3	15
Std_VM_DigitFAvRS	Standard Deviation VM_DigitFAvRS	1047	0	1.882	1.882
VM_DigitBAvRS	WISC III Digit Backward Raw	1046	1	0	13
Std_VM_DigitBAvRS	Standard Deviation VM_DigitBAvRS	1047	0	1.639	1.639
VM_DigitCAvRS	WISC III Digit Combine Raw	1045	2	4	26
Std_VM_DigitCAvRS	Standard Deviation VM_DigitCAvRS	1047	0	2.953	2.953
VM_DigitCAvSS	WISC III Digit Combine Scaled	1045	2	3	19
AD_PmetaRS	Brief Parent Metacognition Raw	1042	5	44	128
Std_AD_PmetaRS	Standard Deviation AD_PmetaRS	1047	0	18.174	18.174
AD_Pmeta01	Brief Parent Metacognition Scaled 0/1	1042	5	0	1
AD_PmetaSS	Brief Parent Metacognition Scaled	1042	5	30	92
AD_TmetaRS	Brief Teacher Metacognition Raw	782	265	44	129
Std_AD_TmetaRS	Standard Deviation AD_TmetaRS	1047	0	22.577	22.577
AD_Tmeta01	Brief Teacher Metacognition Scaled 0/1	782	265	0	1
AD_TmetaSS	Brief Teacher Metacognition Scaled	782	265	32	108
<mark>Behavior Regulation</mark>					
AD_PhyperRS	Conners Parent Hypr/Impulsive Raw	1042	5	26	82
Std_AD_PhyperRS	Standard Deviation AD_PhyperRS	1047	0	10.882	10.882
AD_Phyper01	Conners Parent Hypr/Impulsive Scaled 0/1	1042	5	0	1
AD_PhyperSS	Conners Parent Hypr/Impulsive Scaled	1042	5	33	88
AD_ThyperRS	Conners Teacher Hypr/Impulsive Raw	782	265	29	87
Std_AD_ThyperRS	Standard Deviation AD_ThyperRS	1047	0	12.089	12.089
AD_Thyper01	Conners Teacher Hypr/Impulsive Scaled 0/1	782	265	0	1
AD_ThyperSS	Conners Teacher Hypr/Impulsive Scaled	782	265	37	124
AD_PinattentRS	Conners Parent Inattent Raw	1042	5	26	82

Exhibit 2.1. List of Variables Included in the Analysis File

Variable	Label	n	n Miss	Min	Max
Std_AD_PinattentRS	Standard Deviation AD_PinattentRS	1047	0	10.882	10.882
AD_Pinattent01	Conners Parent Inattent Scaled 0/1	1042	5	0	1
AD_PinattentSS	Conners Parent Inattent Scaled	1042	5	33	88
AD_TinattentRS	Conners Teacher Inattent Raw	782	265	29	87
Std_AD_TinattentRS	Standard Deviation AD_TinattentRS	1047	0	12.089	12.089
AD_Tinattent01	Conners Teacher Inattent Scaled 0/1	782	265	0	1
AD_TinattentSS	Conners Teacher Inattent Scaled	782	265	37	124
AD_PBehavRS	Brief Parent Behave Regulation Raw	1042	5	26	82
Std_AD_PBehavRS	Standard Deviation AD_PbehavRS	1047	0	10.882	10.882
AD_PBehav01	Brief Parent Behave Regulation Scaled 0/1	1042	5	0	1
AD_PBehavSS	Brief Parent Behave Regulation Scaled	1042	5	33	88
AD_TBehavRS	Brief Teacher Behave Regulation Raw	782	265	29	87
Std_AD_TBehavRS	Standard Deviation AD_TbehavRS	1047	0	12.089	12.089
AD_TBehav01	Brief Teacher Behave Regulation Scaled 0/1	782	265	0	1
AD_TBehavSS	Brief Teacher Behave Regulation Scaled	782	265	37	124
<mark>Tics</mark>					
Tc_CAMotorYN	Tics CA Motor Yes/No	1044	3	0	1
Tc_CAMotorRS	Tics CA Obs Motor # observed	1044	3	0	9
Tc_CAPhonicRS	Tics CA Obs Phonic # observed	1044	3	0	5
Tc_CAPhonicYN	Tics CA Phonic Yes/No	1044	3	0	1
Tc_CATotalRS	Tics CA Obs Total # observed	1043	4	0	13
Tc_PEverMotorYN		1036	11	0	1
Tc_PEverMotorRS	Tics Parent Rept Motor # Ever	1036	11	0	16
Tc_PWeekMotorYN	Tics Parent Motor This Week Yes/No	1035	12	0	1
Tc_PWeekMotorRS	Tics Parent Rept Motor # This Week	1035	12	0	10
Tc_PEverPhonicYN		1037	10	0	1
Tc_PEverPhonicRS	Tics Parent Rept Phonic # Ever	1037	10	0	10
Tc_PWeekPhonicYN	Tics Parent Phonic This Week Yes/No	1037	10	0	1
Tc_PWeekPhonicRS	Tics Parent Rept Phonic # This Week	1037	10	0	9
Tc_PWeekTotalRS	Tics Parent Rept Total # This Week	1036	11	0	15
Tc_PEverTotalRS	Tics Parent Rept Total # Ever	1036	11	0	20
<mark>General Intellectual Functioning</mark>					
IF_VIQAvSS	WASI Verbal IQ Scaled	1032	15	62	153
Std_IF_VIQAvSS	Standard Deviation IF_VIQAvSS	1047	0	14.61	14.61

Exhibit 2.1. List of Variables Included in the Analysis File

Variable	Label	n	n Miss	Min	Max
IF_PIQAvSS	WASI Performance IQ Scaled	1038	9	67	147
Std_IF_PIQAvSS	Standard Deviation IF_PIQAvSS	1047	0	15.271	15.271
IF_FSIQAvSS	WASI Full Scale IQ Scaled	1025	22	71	153
Std_IF_FSIQAvSS	Standard Deviation IF_FSIQAvSS	1047	0	14.567	14.567
IF_BlockAvRS	_WASI Block Design Raw	1040	7	0	68
IF_BlockAvSS	_WASI Block Design Scaled	1040	7	27	80
IF_MatrixAvRS	_WASI Matrix Reas. Raw	1044	3	0	32
IF_MatrixAvSS	_WASI Matrix Reas. Scaled	1044	3	21	73
IF_SimAvRS	_WASI Similarities Raw	1041	6	1	41
IF_SimAvSS	_WASI Similarities Scaled	1041	6	20	80
IF_VocAvRS	_WASI Vocabulary Raw	1037	10	12	61
IF_VocAvSS	_WASI Vocabulary Scaled	1037	10	23	80

3. Variable Descriptions

3.1. Child ID Variable

Variable Name	Label	Data Type	Length
ChildID	Child ID	Char	4

Description
ChildID is an ID variable that can be used to link files. The values of ChildIDs are sequential from 0001 to 1047.

3.2. Thimerosal Exposure Variables

3.2.1.1. PreNatThimer (Total prenatal mercury from thimerosal)

Variable Name	Label	Data Type	Length
PreNatThimer	Total prenatal mercury from thimerosal	Numeric	8

Description
PreNatThimer measures the sum total amount of mother's ethyl mercury exposure to Thimerosal in influenza vaccine or Rhogam or any other immune globulin products, during pregnancy, expressed in µg units

Source
Maternal medical record abstraction

Codes and Valid Values
Minimum=0
Maximum=100

Variable Name	Label	Data Type	Length
PreNatThimer_Alt	Alternative Tot prenat (for sensitivity analysis)	Numeric	8

Description
PreNatThimer_Alt is an alternate amount of prenatal ethyl mercury exposure from thimerosal in vaccines and immune globulins received by the mother during her pregnancy with focus child. Calculated using alternative prenatal immune globulin amount variables (PN_IG1_Amt_Alt, PN_IG2_Amt_Alt). See Section 4 for details.

Source
Maternal medical record abstraction

Codes and Valid Values

Minimum=0
Maximum=100

Variable Name	Label	Data Type	Length
PN_Trunc	if PreNatThimer>25 then PN_Trunc=25	Numeric	8

Description
PN_Trunc is the truncated version of *PreNatThimer* which measures the sum total amount of mother's ethyl mercury exposure to Thimerosal in influenza vaccine or Rhogam or any other immune globulin products, during pregnancy, expressed in μg units. If *PreNatThimer* >25 then *PN_Trunc* = 25.

Source
Created from *PreNatThimer*

Codes and Valid Values
Minimum=0
Maximum=25

Variable Name	Label	Data Type	Length
Std_PreNatThimer	Total prenatal mercury from thimerosal	Numeric	8

Description
Std_PreNatThimer is the standard deviation of *PreNatThimer* used for calculation of standardized coefficients.

Source
Created from *PreNatThimer*.

Variable Name	Label	Data Type	Length
Std_PreNatThimer_Alt	Alternative Tot prenat (for sensitivity analysis)	Numeric	8

Description
Std_PreNatThimer_Alt is the standard deviation of *PreNatThimer_Alt* used for calculation of standardized coefficients.

Source
Created from *PreNatThimer_Alt*.

Variable Name	Label	Data Type	Length
Std_PN_Trunc	if PreNatThimer>25 then PN_Trunc=25	Numeric	8

Description

Std_PN_Trunc is the standard deviation of *PN_Trunc* used for calculation of standardized coefficients.

Source
Created from *PN_Trunc*.

3.2.1.2. HepB (Amt/Wt(KGs) birth-28 days)

Variable Name	Label	Data Type	Length
HepB	Amt/Wt(KGs) birth-28 days	Numeric	8

Description
HepB measures the μg of ethyl mercury received from Thimerosal in vaccines in the first 28 days of life divided by child's weight in grams at the time of receipt of the vaccine. For most children who were exposed to any ethyl mercury in the first 28 days of life, the source of the exposure will be receipt of the Hepatitis B vaccine. However, any ethyl mercury exposure from Thimerosal in vaccines should be included in this measure.

Source
Child medical record abstraction.

Codes and Valid Values
Minimum=0
Maximum=12.67

Variable Name	Label	Data Type	Length
Std_HepB	Amt/Wt(KGs) birth-28 days	Numeric	8

Description
Std_HepB is the standard deviation of *HepB* used for calculation of standardized coefficients.

Source
Created from *HepB*.

Variable Name	Label	Data Type	Length
Amt01mos	Amt Merc birth-28 days	Numeric	8

Description
Amt01mos measures the μg of ethyl mercury received from Thimerosal in vaccines in the first 28 days of life

Source
Child medical record abstraction.

Codes and Valid Values
Minimum=0
Maximum=37.5

Variable Name	Label	Data Type	Length
Std_Amt01mos	Amt Merc birth-28 days	Numeric	8

Description
Std_Amt01mos is the standard deviation of *Amt01mos* used for calculation of standardized coefficients.

Source
Created from *Amt01mos.*

Variable Name	Label	Data Type	Length
HepBYN	1 of any hepB, 0 else	Numeric	8

Description
HepBYN is a binary indicator of any exposure to Thimerosal in vaccines in the first 28 days of life.

Source
Created from *HepB*.

Codes and Valid Values
1 if any HepB
0 else

Variable Name	Label	Data Type	Length
Std_HepBYN	1 of any hepB, 0 else	Numeric	8

Description
Std_HepBYN is the standard deviation of *HepBYN* used for calculation of standardized coefficients.

Source
Created from *HepBYN.*

3.2.1.3. Exp07mos (Amt/Wt(KGs) birth-214 days)

Variable Name	Label	Data Type	Length

Exp07mos	Amt/Wt(KGs) birth-214 days	Numeric	8

Description
Exp07mos is a cumulative measure of ethyl mercury exposure to Thimerosal during the age range of birth through seven months (1 to 214 days), expressed in µg units per kg of body weight. Prenatal exposures are not included in this measure.

Source
Child medical record abstraction.

Codes and Valid Values
Minimum=0
Maximum=38.27

Variable Name	Label	Data Type	Length
Amt07mos	Amt Merc birth-214 days	Numeric	8

Description
Amt07mos measures the µg of ethyl mercury received from Thimerosal in vaccines in the first 214 days of life. Prenatal exposures are not included in this measure.

Source
Child medical record abstraction.

Codes and Valid Values
Minimum=0
Maximum=187.5

3.2.1.4. Exp17mos (Amt/Wt(KGs) 29-214 days)

Variable Name	Label	Data Type	Length
Exp17mos	Amt/Wt(KGs) 29-214 days	Numeric	8

Description
Exp17mos is a cumulative measure of ethyl mercury exposure to Thimerosal during the age range of one to seven months (29 to 214 days), expressed in µg units per kg of body weight. Prenatal exposures and exposure to Thimerosal from a hepatitis B vaccination received at birth (i.e., in the first month of life) are not included in this measure.

Source
Child medical record abstraction.

Codes and Valid Values
Minimum=0
Maximum=33.77

Variable Name	Label	Data Type	Length
Std_Exp07mos	Amt/Wt(KGs) birth-214 days	Numeric	8

Description
Std_Exp07mos is the standard deviation of *Exp07mos* used for calculation of standardized coefficients.

Source
Created from *Exp07mos*.

Variable Name	Label	Data Type	Length
Amt17mos	Amt Merc 29-214 days	Numeric	8

Description
Amt17mos measures the μg of ethyl mercury received from Thimerosal in vaccines in days 29 to 214 of life. Prenatal exposures and exposure to Thimerosal from a hepatitis B vaccination received at birth (i.e., in the first month of life) are not included in this measure.

Source
Child medical record abstraction.

Codes and Valid Values
Minimum=0
Maximum=187.5

Variable Name	Label	Data Type	Length
Std_Amt07mos	Amt Merc birth-214 days	Numeric	8

Description
Std_Amt07mos is the standard deviation of *Amt07mos* used for calculation of standardized coefficients.

Source
Created from *Amt07mos*.

Variable Name	Label	Data Type	Length
Std_Amt17mos	Amt Merc 29-214 days	Numeric	8

Description
Std_Amt17mos is the standard deviation of *Amt17mos* used for calculation of standardized coefficients.

Source
Created from *Amt17mos*.

Variable Name	Label	Data Type	Length
Std_Exp17mos	Amt/Wt(KGs) 29-214 days	Numeric	8

Description
Std_Exp17mos is the standard deviation of *Exp17mos* used for calculation of standardized coefficients.

Source
Created from *Exp17mos*.

3.3. Concurrent Antibiotics Variables

3.3.1.1. AbDays1_28   (# days child on abiots in period 1-28 days)

Variable Name	Label	Data Type	Length
AbDays1_28	# days child on abiots in period 1-28 days	Numeric	8

Description
AbDays1_28 is the number of days a child was on antibiotics in the period 1- 28 days old.

Source
Child medical record; pharmacy data.

Codes and Valid Values
Minimum=0
Maximum=28

3.3.1.2. AbDays29_214 (# days child on abiots in period 29-214 days)

Variable Name	Label	Data Type	Length
AbDays29_214	# days child on abiots in period 29-214 days	Numeric	8

Description
AbDays29_214 is the number of days a child was on antibiotics in the period 29-214 days old.

Source
Child medical record; pharmacy data.

Codes and Valid Values
Minimum=0
Maximum=186

3.3.1.3. AbDays (# days child on abiots in period 1-214 days)

Variable Name	Label	Data Type	Length
AbDays	# days child on abiots in period 1-214 days	Numeric	8

Description
 AbDays is the number of days a child was on antibiotics in the period 1- 214 days old.

Source
Child medical record; pharmacy data.

Codes and Valid Values
Minimum=0
Maximum=214

3.3.1.4. AbHepB (Concurrent antibiotics (ages 1-28))

Variable Name	Label	Data Type	Length
AbHepB	Concur abiots (ages 1-28)	Numeric	8

Description
AbHepB is a cumulative measure of ethyl mercury exposure from thimerosal in vaccines received concurrent with antibiotics during the age ranges from birth through 28 days, expressed in μg units per kilograms of body weight at the time of vaccine receipt.

Note: The "window" around concurrent antibiotics treatment includes the 14 days prior to the start of antibiotics treatment and the 14 days after the last day of the antibiotics course.

Source
Child medical record; pharmacy data.

Codes and Valid Values
Minimum=0
Maximum=4.322

Variable Name	Label	Data Type	Length
Std_AbHepB	Concur abiots (ages 1-28)	Numeric	8

Description
Std_AbHepB is the standard deviation of *AbHepB* used for calculation of standardized coefficients.

Source
Created from *AbHepB*.

3.3.1.5. AbExp17mos (Concur abiots (ages 29-214))

Variable Name	Label	Data Type	Length
AbExp17mos	Concur abiots (ages 29-214)	Numeric	8

Description
AbExp17mos is a cumulative measure of ethyl mercury exposure from thimerosal in vaccines received concurrent with antibiotics during the age ranges from one month through seven months (29-214 days), expressed in μg units per kilograms of body weight at the time of vaccine receipt.

Note: The "window" around concurrent antibiotics treatment includes the 14 days prior to the start of antibiotics treatment and the 14 days after the last day of the antibiotics course.

Source
Child medical record; pharmacy data.

Codes and Valid Values
Minimum=0
Maximum=32.86

Variable Name	Label	Data Type	Length
Std_AbExp17mos	Concur abiots (ages 29-214)	Numeric	8

Description
Std_AbExp17mos is the standard deviation of *AbExp17mos* used for calculation of standardized coefficients.

Source
Created from *AbExp17mos.*

3.3.1.6. AbExp07mos   Concur abiots (ages 1-214)

Variable Name	Label	Data Type	Length
AbExp07mos	Concur abiots (ages 1-214)	Numeric	8

Description
AbExp07mos is a cumulative measure of ethyl mercury exposure from thimerosal in vaccines received concurrent with antibiotics during the age ranges from birth through seven months (1-214 days), expressed in μg units per kilograms of body weight at the time of vaccine receipt.

Note: The "window" around concurrent antibiotics treatment includes the 14 days prior to the start of antibiotics treatment and the 14 days after the last day of the antibiotics course.

Source
Child medical record; pharmacy data.

Codes and Valid Values
Minimum=0
Maximum=32.86

Variable Name	Label	Data Type	Length
Std_AbExp07mos	Concur abiots (ages 1-214)	Numeric	8

Description
Std_AbExp07mos is the standard deviation of *AbExp07mos* used for calculation of standardized coefficients.

Source
Created from *AbExp07mos*.

3.4. COVARIATES

3.4.1. Child and Family Demographics

3.4.1.1. ChildAge (Child Age (Yrs) at assessment)

Variable Name	Label	Data Type	Length
ChildAge	Child Age (Yrs) at assessment	Numeric	8

Description
ChildAge is the child's age in years at the time (s)he participated in the assessments.

Source
Parent interview; child medical record.

Codes and Valid Values
Minimum=7.07
Maximum=10.99

3.4.1.2. Sexmale (Sex of child 0=female, 1=male)

Variable Name	Label	Data Type	Length
Sexmale	Sex of child 0=female, 1=male	Numeric	8

Description
Sexmale is a binary indicator of the sex of the child.

Source
Parent interview; VSD automated database

Codes and Valid Values
1 if child is male
0 otherwise

3.4.1.3. ChdBWT_Grp (Child Birth Weight)

Variable Name	Label	Data Type	Length
ChdBWT_Grp	1=2500-2999,2=3000-3999s,3=4000+ grams	Numeric	8

Description

ChdBWT_Grp defines three categories of child's birth weight.

Source
Created from *ChdBWT*.

Codes and Valid Values
1 if 2500-2999 grams
2 if 3000-3999 grams
3 if greater than 4000 grams

Variable Name	Label	Data Type	Length
ChdBWT	Child Birth Weight	Numeric	8

Description
ChdBWT is child's birth weight measured in grams. If below 2,500 grams, child will be excluded from the study. Twenty-five records had missing values for the measure of *ChdBWT*. As described in Section 7.5 of the Technical Report, we employed a method of imputation that involved adding random noise to the predicted value from a regression model to produce an imputed value corresponding to each missing value. Vaccination history and CDC growth chart data were also used in the regression model.

Source
Child medical record abstraction.

Codes and Valid Values
Minimum=2500
Maximum=5542

Variable Name	Label	Data Type	Length
ChdBWT_ImpFlg	1= imputed from Vac history and CDC growth charts	Numeric	8

Description
ChdBWT_ImpFlg is a flag showing if *ChdBWT* is imputed from vaccination history and CDC growth charts.

Source
Created based on value of *ChdBWT*.

Codes and Valid Values
1 if imputed value
0 otherwise

3.4.1.4. Computer Experience

Variable Name	Label	Data Type	Length
ComputerExpr	0=None,1=Some,2=Much	Numeric	8

Description
ComputerExpr defines three categories of acquaintance with computers or computer games (none, some, and much). One record had missing values for the measure of computer experience. The parent answered "don't know" so we made the assumption that the experience level was not "Much". As described in Section 7.5 of the Technical Report, we employed a method of multiple imputation that involved adding random noise to the predicted value from a regression model to produce ten separate imputed values corresponding to each missing value. All imputed values come out to *ComputerExpr*=1 (Some). So rather than saving all 10 multiple imputed values, we set the values for *ComputerExpr* to 1 for the missing values.

Note: Computer experience variables to be used as covariates in models for continuous performance tests.

Source
Parent interview

Codes and Valid Values
 0 if no computer experience
1 if some computer experience
2 if much computer experience

Variable Name	Label	Data Type	Length
ComputerExpr_Imp	1 = Multiple imputation for missings	Numeric	8

Description
ComputerExpr_Imp *is a flag showing if* ComputerExpr *is an imputed value.*

Source
Created based on value of *ComputerExpr*.

Codes and Valid Values
1 if imputed value
0 otherwise

3.4.1.5. MomIQ1…10 (Maternal IQ)

Variable Name	Label	Data Type	Length
MomIQ1…10	1=Lower third,2=Mid third,3=Upper third of IQ Distrbn	Numeric	8

Description
MOMIQ1… MOMIQ10 define three categories of maternal IQ based on the distribution of *KBITSUMImpVal1… KBITSUMImpVal10*. They are the categorical measure for maternal IQ. Twenty-three records had missing values for the measure of maternal IQ. As described in Section 7.5 of the Technical Report, we employed a method of multiple imputation that involved adding random noise to the predicted value from a regression model to produce ten separate imputed values corresponding to each missing value. The data set includes ten separate IQ

variables to accommodate the ten multiple imputations. For records with non-missing data for maternal IQ, the values of the ten variables *MOMIQ1…MomIQ10* are identical to one another. For the twenty-three records with imputed IQ measures, the values of the ten variables *MOMIQ1… MomIQ10* are potentially slightly different than another.

Source
Created based on values for *KBITSUMImpVal1… KBITSUMImpVal10.*

Codes and Valid Values
1 in lower third of maternal IQ distribution
2 in middle third of maternal IQ distribution
3 in upper third of maternal IQ distribution

Variable Name	Label	Data Type	Length
KBITSUMImpVal1… 10		Numeric	8

Description
KBITSUMImpVal1… KBITSUMImpVal10 are the Kaufman Brief Intelligence test scores, measured on a continuous scale. It is the measure for maternal IQ. Twenty-three records had missing values for the measure of maternal IQ. As described in Section 7.5 of the Technical Report, we employed a method of multiple imputation that involved adding random noise to the predicted value from a regression model to produce ten separate imputed values corresponding to each missing value. The data set includes ten separate IQ variables to accommodate the ten multiple imputations. For records with non-missing data for maternal IQ, the values of the ten variables *KBITSUMImpVal1… KBITSUMImpVal10* are identical to one another. For the twenty-three records with imputed IQ measures, the values of the ten variables *KBITSUMImpVal1… KBITSUMImpVal10* are potentially slightly different than another.

Source
Mother assessment

Codes and Valid Values
Minimum=56
Maximum=132

Variable Name	Label	Data Type	Length
KBITSUM_Imp	1 = Multiple imputation for missings	Numeric	8

Description
KBITSUM_Imp is a flag showing if *KBITSUMImpVal1 - KBITSUMImpVal10* are imputed values.

Source
Created if *KBITSUMImpVal1… KBITSUMImpVal10* is missing.

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Codes and Valid Values
1 if *KBITSUMImpVal1… KBITSUMImpVal10* missing

3.4.1.6. Home Index Score

Variable Name	Label	Data Type	Length
HOME_TotalIndex	HOME_TotalIndex	Numeric	8

Description
HOME_TotalIndex is the total score on Home Observation for Measurement of the Environment-Short Form which is a measure of the quality of a child's home environment based on maternal self-report and interviewer observations. It is a sum of two subscores, a cognitive stimulation and an emotional support score, and has a wide variety of inputs necessary to measure the quality of the home environment including family interaction patterns, physical attributes of the home, and intellectual attributes.

Source
Parent interview.

Codes and Valid Values
Minimum=3
Maximum=16

3.4.1.7. Percent of Poverty Line

Variable Name	Label	Data Type	Length
PctPoverty1… 10	(Percent of poverty line)/100	Numeric	8

Description
PctPoverty1… PctPoverty10: Percent of poverty line was calculated from household size, household income, and the 2004 poverty guidelines for the48 contiguous states and the District of Columbia shown in Department of Health and Human Services Annual Update of the HHS Poverty Guidelines; Federal Register, Vol. 69, No. 30, February 13, 2004 / Notices according to the following algorithm:
if HH size=2 then Pov=HH Income/12490;
if HH size=3 then Pov=HH Income/15670;
if HH size=4 then Pov=HH Income/18850;
if HH size=5 then Pov=HH Income/22030;
if HH size=6 then Pov=HH Income/25210;
if HH size=7 then Pov=HH Income/28390;
if HH size=8 then Pov=HH Income/31570;
if HH size=9 then Pov=HH Income/(31570+3180);
if HH size=10 then Pov=HH Income/(31570+6360);

Fifteen records had missing values for the measure of household income. As described in Section 7.5 of the Technical Report, we employed a method of multiple imputation that involved adding random noise to the predicted value from a regression model to produce ten separate imputed values corresponding to each missing value. The data set includes ten separate percent of poverty level variables to accommodate the ten multiple imputations. For records with non-missing data for household income, the values of the ten variables *PctPoverty1… PctPoverty10* are identical to one another. For the fifteen records with imputed household income measures, the values of the ten variables *PctPoverty1… PctPoverty10* are potentially slightly different than another.

Source
Parent interview.

Codes and Valid Values
Minimum=.020
Maximum=22.70

Variable Name	Label	Data Type	Length
PctPoverty_Imp	1 = Multiple imputation for missings	Numeric	8

Description
PctPoverty_Imp is a flag showing if *PctPoverty1… PctPoverty10* are imputed values.

Source
Created based on value of *PctPoverty1… PctPoverty10.*

Codes and Valid Values
1 if imputed value
0 otherwise

3.4.1.8. Maternal Education Level

Variable Name	Label	Data Type	Length
MomEduc	0=NoHS,1=HS/GED,2=SomColl,3=CollDegr	Numeric	8

Description
MomEduc defines four categories of the mother's educational level.

Source
Parent interview.

Codes and Valid Values
0 if no high school
1 if mother's highest degree is a high school diploma or GED
2 if mother attended some college, but does not have a degree
3 if mother has a college degree (BA or Associate's or above)

3.4.1.9. Single Parent

Variable Name	Label	Data Type	Length
SingleParent	Child lives in a single parent household(0/1)	Numeric	8

Description
SingleParent is a binary indicator of the child living in a single parent household.

Source
Parent interview.

Codes and Valid Values
1 if child lives in a single parent household
0 otherwise

3.4.1.10. Site Dummy

Variable Name	Label	Data Type	Length
SiteNumber	1=HMO-A 2=HMO-B 3=HMO-C 4=HMO-D	Numeric	8

Description
SiteNumber defines four categories of sites.

Source
Sampling frame

Codes and Valid Values
1,2,3,4
1=HMO-A 2=HMO-B 3=HMO-C 4=HMO-D

Variable Name	Label	Data Type	Length
Site	HMO-A HMO-B HMO-C HMO-D	Char	5

Description
Site defines four categories of sites.

Source
Sampling frame

Codes and Valid Values
HMO-A
HMO-B
HMO-C

3.4.1.11. **MatAgeCat (Maternal age)**

Variable Name	Label	Data Type	Length
MatAgeCat	1=0-16, 2=17-39, 3=40+	Numeric	8

Description
MatAgeCat defines three categories of maternal age at time of birth.

Source
Parent interview, VSD automated data base, medical records.

Codes and Valid Values
1 if mother's age at time of child's birth was 16 years or younger
2 if mother's age at time of birth was between 17 to 39
3 if mother's age at time of child's birth was 40 years or older

3.4.1.12. **OlderSibs**

Variable Name	Label	Data Type	Length
OlderSibs	Child has an older sibling (0/1)	Numeric	8

Description
OlderSibs is a binary indicator of whether or not the child has an older sibling living at home.

Source
Parent interview

Codes and Valid Values
1 if child has an older sibling living at home
0 otherwise

3.4.1.13. **YoungerSibs**

Variable Name	Label	Data Type	Length
YoungerSibs	Child has a younger sibling (0/1)	Numeric	8

Description
YoungerSibs is a binary indicator of whether or not the child has a younger sibling living at home.

Source
Parent interview

Codes and Valid Values
1 if child has a younger sibling living at home
0 otherwise

3.4.1.14. **DayCareCentrImpVal1…10**

Variable Name	Label	Data Type	Length
DayCareCentrImpVal1…10	# of center-based day care settings prior to KG	Numeric	8

Description
DayCareCentrImpVal1… DayCareCentrImpVal10 are the number of center-based day care settings attended by the child prior to kindergarten. Four records had missing values for the measure number of center-based day care settings. As described in Section 7.5 of the Technical Report, we employed a method of multiple imputation that involved adding random noise to the predicted value from a regression model to produce ten separate imputed values corresponding to each missing value. The data set includes ten separate center-based day care settings variables to accommodate the ten multiple imputations. For records with non-missing data for center-based day care settings, the values of the ten variables *DayCareCentrImpVal1… DayCareCentrImpVal10* are identical to one another. For the four records with imputed center-based day care settings measures, the values of the ten variables *DayCareCentrImpVal1… DayCareCentrImpVal10* are potentially slightly different than another.

Source
Parent interview

Codes and Valid Values
Minimum=0
Maximum=9

Variable Name	Label	Data Type	Length
DayCareCentr_Imp	1 = Multiple imputations for missings	Numeric	8

Description
DayCareCentr_Imp is a flag showing if *DayCareCentrImpVal1… DayCareCentrImpVal10* are imputed values.

Source
Created based on the value of *DayCareCentrImpVal1… DayCareCentrImpVal10.*

Codes and Valid Values
1 if imputed value
0 otherwise

3.4.1.15. **DayCareHomeImpVal1…10**

Variable Name	Label	Data Type	Length
DayCareHomeImpVal1…10	# of home-based day care settings prior to KG	Numeric	8

Description
DayCareHomeImpVal1… DayCareHomeImpVal10 are the number of home-based day care settings attended by the child prior to kindergarten. Four records had missing values for the measure number of home-based day care settings. As described in Section 7.5 of the Technical

Report, we employed a method of multiple imputation that involved adding random noise to the predicted value from a regression model to produce ten separate imputed values corresponding to each missing value. The data set includes ten separate home-based day care settings variables to accommodate the ten multiple imputations. For records with non-missing data for home-based day care settings, the values of the ten variables *DayCareHomeImpVal1…* *DayCareHomeImpVal10* are identical to one another. For the four records with imputed home-based day care settings measures, the values of the ten variables *DayCareHomeImpVal1…* *DayCareHomeImpVal10* are potentially slightly different than another.

Source
Parent interview

Codes and Valid Values
Minimum=0
Maximum=14

Variable Name	Label	Data Type	Length
DayCareHome_Imp	1 = Multiple imputations for missings	Numeric	8

Description
DayCareHome_Imp is a flag showing if *DayCareHomeImpVal1… DayCareHomeImpVal10* are imputed values.

Source
Created based on the value of *DayCareHomeImpVal1… DayCareHomeImpVal10.*

Codes and Valid Values
1 if imputed value
0 otherwise

3.4.1.16. EngOnly (English only household)

Variable Name	Label	Data Type	Length
EngOnly	English only at home	Numeric	8

Description
EngOnly is a binary indicator of whether or not English is the only language spoken in the home. We required that all children in the analysis sample be fluent in English. Further, the biological mother must be sufficiently proficient in English to understand the informed consent and interview. However, the home language may not be English only.

Source
Parent interview; screening interview.

Codes and Valid Values
1 if English is the only language spoken in the home
0 otherwise

3.4.1.17. **BFMthsCat (Breastfeeding duration)**

Variable Name	Label	Data Type	Length
BFMthsCat	Breast Fed: 1=<1mo,2=1-6mos,3=6+mos	Numeric	8

Description
BFMthsCat defines three categories for the duration of breastfeeding (less than one month, one to six months, and six months or more).

Source
Parent interview

Codes and Valid Values
0 if child was breastfed less than one month
1 if child was breastfed one to six months
2 if child was breastfed six or more months

3.4.1.18. **RaceCat**

Variable Name	Label	Data Type	Length
RaceEth	1=Black 2=Hisp 3=White 4=Other	Numeric	8

Description
RaceCat defines four categories of mother-reported race/ethnicity of the child.

Source
Parent interview

Codes and Valid Values
1, 2, 3, 4
1="Black", 2="Hisp", 3="White", 4="Other"

3.4.2. Other Exposure During Prenatal Period (Non-mercury)

3.4.2.1. PreNatNicotine_1… _10

Variable Name	Label	Data Type	Length
PreNatNicotine_1… _10	Used tobacco during pregnancy	Numeric	8

Description
PreNatNicotine_1… PreNatNicotine_10 are binary indicators of the mother's use of any type of tobacco product during pregnancy. Two records had missing values for the indicator of tobacco use. As described in Section 7.5, we employed a method of multiple imputation that involved adding random noise to the predicted value from a regression model to produce ten separate imputed values corresponding to each missing value. The data set includes ten separate indicators of maternal tobacco use to accommodate the ten multiple imputations. For records with non-missing data for maternal tobacco use, the values of the ten variables

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PreNatNicotine_1… PreNatNicotine_10 are identical to one another. For the two records with imputed indicators of tobacco use, the values of the ten variables *PreNatNicotine_1… PreNatNicotine_10* are potentially slightly different than another.

Source
Parent interview; maternal medical record.

Codes and Valid Values
1 if mother used any type of tobacco product during pregnancy
0 otherwise

Variable Name	Label	Data Type	Length
PreNatNicotine_Imp	1 = Multiple imputations for missings	Numeric	8

Description
PreNatNicotine_Imp if a flag showing if *PreNatNicotine_1 – PreNatNicotine_10* are imputed values.

Source
Created based on the value of *PreNatNicotine_1 – PreNatNicotine_10.*

Codes and Valid Values
1 if imputed value
0 otherwise

3.4.2.2. PreNatAlcohol_1… _10

Variable Name	Label	Data Type	Length
PreNatAlcohol_1… _10	0=never - 4 heavy	Numeric	8

Description
PreNatAlcohol_1… PreNatAlcohol_10 define five categories of maternal alcohol use during pregnancy (none, occasional, light, moderate, and heavy) . Four records had missing values for the indicator of alcohol use. As described in Section 7.5 of the Technical Report, we employed a method of multiple imputation that involved adding random noise to the predicted value from a regression model to produce ten separate imputed values corresponding to each missing value. The data set includes ten separate indicators of maternal alcohol use to accommodate the ten multiple imputations. For records with non-missing data for maternal alcohol use, the values of the ten variables *PreNatAlcohol_1… PreNatAlcohol_10* are identical to one another. For the four records with imputed maternal alcohol use indicators, the values of the ten variables *PreNatAlcohol_1… PreNatAlcohol_10* are potentially slightly different than another.

Source
Parent interview; maternal medical record.

Codes and Valid Values
0 = never
1 = occasional (1-4 times/ month)

2 = light (20-24 times/month or 5-6 drinks a week)
3 = moderate (10-15 drinks/wk)
4 = heavy (more than 15 drinks/wk)

Variable Name	Label	Data Type	Length
PreNatAlcohol_Imp	1 = Multiple imputations for missings	Numeric	8

Description
PreNatAlcohol_Imp if a flag showing if *PreNatAlcohol_1… PreNatAlcohol_10* are imputed values.

Source
Created based on the value of *PreNatAlcohol_1… PreNatAlcohol_10.*

Codes and Valid Values
1 if imputed value
0 otherwise

3.4.2.3. PreNatOccupLead_1…_10

Variable Name	Label	Data Type	Length
PreNatOccupLead_1…_10		Numeric	8

Description
PreNatOccupLead_1… PreNatOccupLead_10 is a binary indicator of prenatal exposure to lead through the mother's occupation including smelting, soldering, construction, and demolition. Six records had missing values for prenatal exposure to lead through the mother's occupation. As described in Section 7.5 of the Technical Report, we employed a method of multiple imputation that involved adding random noise to the predicted value from a regression model to produce ten separate imputed values corresponding to each missing value. The data set includes ten separate indicators of prenatal exposure to lead through the mother's occupation to accommodate the ten multiple imputations. For records with non-missing data for prenatal exposure to lead through the mother's occupation, the values of the ten variables *PreNatOccupLead_1… PreNatOccupLead_10* are identical to one another. For the six records with imputed prenatal exposure to lead through the mother's occupation, the values of the ten variables *PreNatOccupLead_1… PreNatOccupLead_10* are potentially slightly different than another.

Source
Parent interview.

Codes and Valid Values
1 if the mother worked in one of the listed occupations
0 otherwise

Variable Name	Label	Data Type	Length
PreNatOccupLead_Imp	1 = Multiple imputations for missings	Numeric	8

Description

PreNatOccupLead_Imp is a flag showing if *PreNatOccupLead_1… PreNatOccupLead_10* are imputed values.

Source
Created based on the value of *PreNatOccupLead_1… PreNatOccupLead_10.*

Codes and Valid Values
1 if imputed value
0 otherwise

3.4.2.4. PreNatResiLead_1…_10

Variable Name	Label	Data Type	Length
PreNatResiLead_1…_10		Numeric	8

Description
PreNatResiLead_1… PreNatResiLead_10 is a binary indicator of whether there was exposure to lead- either prenatal exposure to lead from home renovations (built pre-1978) or exposure from living in an old home (built pre-1950). Eight records had missing values for exposure to lead from the residence. As described in Section 7.5 of the Technical Report, we employed a method of multiple imputation that involved adding random noise to the predicted value from a regression model to produce ten separate imputed values corresponding to each missing value. The data set includes ten separate indicators of exposure to lead from the residence to accommodate the ten multiple imputations. For records with non-missing data for exposure to lead from the residence, the values of the ten variables *PreNatResiLead_1… PreNatResiLead_10* are identical to one another. For the eight records with imputed exposure to lead from the residence, the values of the ten variables *PreNatResiLead_1… PreNatResiLead_10* are potentially slightly different than another.

Source
Parent interview

Codes and Valid Values
1 if lived in old home (pre-1950) OR in home (pre-1978) undergoing renovation while pregnant
0 if did not live in home built before 1950 AND if home is pre-1978, was not renovated while pregnant

Variable Name	Label	Data Type	Length
PreNatResiLead_Imp	1 = Multiple imputations for missings	Numeric	8

Description
PreNatResiLead_Imp is a flag showing if *PreNatResiLead_1… PreNatResiLead_10* are imputed values.

Source
Created if *PreNatResiLead_1… PreNatResiLead_10* is missing.

Codes and Valid Values

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1 if imputed value

3.4.2.5. PreNatlead_1…_10

Variable Name	Label	Data Type	Length
PreNatlead_1…_10	Prenat lead from occup or residential	Numeric	8

Description
PreNatlead_1…_10 is a binary indicator of lead exposure either through the mother's occupation or residence. *PreNatlead_1* is a sum of the values for the flowing variables *PreNatOccupLead_1* and *PreNatResiLead_1*. *PreNatlead_2* is similarly defined with the second imputation, etc…

Source
Created based on the value of variables *PreNatOccupLead_1…PreNatOccupLead_10* and *PreNatResiLead_1… PreNatResiLead_10.*

Codes and Valid Values
1 if either *PreNatOccupLead_1…PreNatOccupLead_10* or *PreNatResiLead_1… PreNatResiLead_10* have a value of 1
0 otherwise

3.4.2.6. PreNatIllDrug

Variable Name	Label	Data Type	Length
PreNatIllDrug	1=Cocaine or Narcotic	Numeric	8

Description
PreNatIllDrug is a binary indicator of the mother's use of narcotics or illegal drugs, including prescription opiodes, cocaine, crack , heroine, methamphetamines, and speed.

Source
Parent interview; maternal medical record.

Codes and Valid Values
1 if any narcotic or illegal drug use
0 otherwise

3.4.3.   Prenatal Non-Vaccine Mercury Exposure

3.4.3.1. PreNatFish_1…_10

Variable Name	Label	Data Type	Length
PreNatFish_1…_10	1=Tuna, Ocean and Home Caught	Numeric	8

Description

PreNatFish_1... PreNatFish_10 are binary indicators that take the value 1 if mother reported eating tuna and ocean fish and home-caught fish during pregnancy. Forty-seven records had missing values for the indicator of consumption of fish. As described in Section 7.5 of the Technical Report, we employed a method of multiple imputation that involved adding random noise to the predicted value from a regression model to produce ten separate imputed values corresponding to each missing value. The data set includes ten separate indicators of consumption of fish to accommodate the ten multiple imputations. For records with non-missing data for consumption of fish, the values of the ten variables *PreNatFish_1... PreNatFish_10* are identical to one another. For the forty-seven records with imputed indicators of consumption of fish, the values of the ten variables *PreNatFish_1... PreNatFish_10* are potentially slightly different than another.

Source
Parent interview.

Codes and Valid Values
1 if consumption of tuna, saltwater, and freshwater caught fish
0 if no consumption of tuna, saltwater, or freshwater caught fish

Variable Name	Label	Data Type	Length
PreNatFish_Imp	1 = Multiple imputations for missings	Numeric	8

Description
PreNatFish_Imp is a flag showing if *PreNatFish_1... PreNatFish_10* are imputed values.

Source
Created based on the value of *PreNatFish_1... PreNatFish_10.*

Codes and Valid Values
1 if imputed value
0 otherwise

3.4.3.2. PreNatTuna_1..._10

Variable Name	Label	Data Type	Length
PreNatTuna_1..._10	Prenatal Tuna (0=none, 1=moderate, 2=high)	Numeric	8

Description
PreNatTuna_1... PreNatTuna_10 defines three categories of mercury exposure through maternal tuna consumption (none, moderate, and high). Fifty-five records had missing values for consumption of tuna. Since the parent answered "don't know", we made the assumption that the consumption was not "High". As described in Section 7.5 of the Technical Report, we employed a method of multiple imputation that involved adding random noise to the predicted value from a regression model to produce ten separate imputed values corresponding to each missing value. The data set includes ten separate indicators of maternal tuna consumption to accommodate the ten multiple imputations. For records with non-missing data for maternal tuna consumption, the values of the ten variables *PreNatTuna_1 – 10* are identical to one another. For the fifty-five

records with imputed maternal tuna consumption, the values of the ten variables *PreNatTuna_1 –10* are potentially slightly different than another.

Source
Parent interview.

Codes and Valid Values
2 if high consumption, which is more than 1 sandwich per week or ½ can per week or 3 oz. per week
1 if moderate consumption, which is some tuna, but less than high
0 if no consumption

Variable Name	Label	Data Type	Length
PreNatTuna_Imp	1 = Multiple imputations for missings	Numeric	8

Description
PreNatTuna_Imp is a flag showing if *PreNatTuna_1- PreNatTuna_10* are imputed values.

Source
Created based on the value of *PreNatTuna_1- PreNatTuna_10.*

Codes and Valid Values
1 if imputed value
0 otherwise

3.4.3.3. PreNatAllMerc_1-_10

Variable Name	Label	Data Type	Length
PreNatAllMerc_1-_10		Numeric	8

Description
The PreNatAllMerc measure of prenatal exposure was created by dichotomizing component variables into categories "1 = any exposure", and "0 = no exposure", and summing to create a composite score. The following variables were summed to create the composite (named *PrenatAllMerc*)

Variable		**Defintion**	
Pre_VacIG	$\begin{cases} = 0 \\ = 1 \end{cases}$	if *PreNatThimer* = 0 if *PreNatThimer* > 0	
Pre_Tuna	$\begin{cases} = 1 \\ = 0 \end{cases}$	if *PreNatTuna* > 0 if *PrenatTuna* = 0	
PreOrg	$\begin{cases} = 0 \\ = 1 \end{cases}$	*PreNatOrgMerc* = 0 if *PreNatOrgMerc* > 0	
PreAmalgam	$\begin{cases} = 0 \\ = 1 \end{cases}$	if *PreNatFillings* = 0 if *PreNatFillings* > 0	
PreNatFish	=	*PreNatFish* variable as currently defined (0/1).	
PreNatHomePro	=	*PreNatHomePro* as currently defined (0/1).	

$$PreNatAllMerc = Pre\_VacIG + Pre\_Tuna + PreOrg + PreAmalgam + PreNatFish + PreNatHomePro$$

PreNatAllMerc_1 was created from *PreNatTuna_1, PreNatFish_1*, etc, *PreNatAllMerc_2* was created from *PreNatTuna_2, PreNatFish_2,* and so on.

Codes and Valid Values
Minimum=0
Maximum=5

3.4.3.4. PreNatFillings_1…_10

Variable Name	Label	Data Type	Length
PreNatFillings_1…_10	Prenatal amalgams	Numeric	8

Description
PreNatFillings_1… PreNatFillings_10 defines three categories of elemental mercury exposure from amalgam fillings (no fillings; have fillings and no dental work, gum, or grind teeth; and have fillings, had dental work or chewed gum or grinded teeth). Thirty-nine records had missing values for one of the components of amalgam fillings. As described in Section 7.5 of the Technical Report, we employed a method of multiple imputation that involved adding random noise to the predicted value from a regression model to produce ten separate imputed values corresponding to each missing value. The data set includes ten separate indicators of maternal mercury exposure from amalgam fillings to accommodate the ten multiple imputations. For records with non-missing data for maternal mercury exposure from amalgam fillings, the values of the ten variables *PreNatFillings_1… PreNatFillings_10* are identical to one another. For the thirty-nine records with imputed maternal mercury exposure from amalgam fillings, the values of the ten variables *PreNatFillings_1… PreNatFillings_10* are potentially slightly different than another.

Source
Parent interview.

Codes and Valid Values
2 if the mother had amalgam fillings, and had dental work or chewed gum or grinded teeth at night
1 if the mother had amalgam fillings, but had no dental work and did not chew gum and did not grind teeth at night
0 if the mother has no amalgam fillings

Variable Name	Label	Data Type	Length
PreNatFillings_Imp	1 = Multiple imputations for missings	Numeric	8

Description

PreNatFillings_Imp is a flag showing if *PreNatFillings_1… PreNatFillings_10* are imputed values.

Source
Created based on the value of *PreNatFillings_1… PreNatFillings_10.*

Codes and Valid Values
1 if imputed value
0 otherwise

3.4.3.5. PreNatHomePro_1…_10

Variable Name	Label	Data Type	Length
PreNatHomePro_1…_10	# Merc exp from therm, bulbs, switches etc.	Numeric	8

Description
PreNatHomePro_1… PreNatHomePro_10 is a binary indicator of prenatal exposure to elemental mercury from home products including broken thermometers or mercury containing thermostats, broken fluorescent light bulbs, broken shoes with flashing lights made before 1977, or broken electronic switches, relays, or gauges in houses built before 1972. Forty records had missing values for prenatal mercury exposure from home products. As described in Section 7.5 of the Technical Report, we employed a method of multiple imputation that involved adding random noise to the predicted value from a regression model to produce ten separate imputed values corresponding to each missing value. The data set includes ten separate indicators of prenatal mercury exposure from home products to accommodate the ten multiple imputations. For records with non-missing data for prenatal mercury exposure from home products, the values of the ten variables *PreNatHomePro_1… PreNatHomePro_10* are identical to one another. For the forty records with imputed prenatal mercury exposure from home products, the values of the ten variables *PreNatHomePro_1… PreNatHomePro_10* are potentially slightly different than another.

Source
Parent interview

Codes and Valid Values
1 if exposure to any of the listed home products
0 otherwise

Variable Name	Label	Data Type	Length
PreNatHomePro_Imp	1 = Multiple imputations for missings	Numeric	8

Description
PreNatHomePro_Imp is a flag showing if *PreNatHomePro_1… PreNatHomePro_10* are imputed values.

Source
Created based on the value of *PreNatHomePro_1… PreNatHomePro_10.*

Codes and Valid Values
1 if imputed value
0 otherwise

3.4.3.6. PreNatOrgMerc_1…_10

Variable Name	Label	Data Type	Length
PreNatOrgMerc_1…_10	# Merc containing contact lens, ear, eye, nasal	Numeric	8

Description
PreNatOrgMerc_1… PreNatOrgMerc_10 are measures of of prenatal exposure to organic mercury from thimerosal-containing contact lens solutions or nasal sprays. Each of these sources was given a score of 0 for no use, 1 for moderate use, and 2 for regular or high use. The value of *PreNatOrgMerc_1… PreNatOrgMerc_10* is a sum of these scores. Thirty-seven records had missing values for prenatal exposure to mercury from sources other than fish. As described in Section 7.5 of the Technical Report, we employed a method of multiple imputation that involved adding random noise to the predicted value from a regression model to produce ten separate imputed values corresponding to each missing value. The data set includes ten separate indicators of prenatal exposure to mercury from sources other than fish to accommodate the ten multiple imputations. For records with non-missing data for prenatal exposure to mercury from sources other than fish, the values of the ten variables *PreNatOrgMerc_1… PreNatOrgMerc_10* are identical to one another. For the thirty-seven records with imputed prenatal exposure to mercury from sources other than fish, the values of the ten variables *PreNatOrgMerc_1... PreNatOrgMerc_10* are potentially slightly different than another.

Source
Parent interview.

Codes and Valid Values
Minimum=0
Maximum=4

Variable Name	Label	Data Type	Length
PreNatOrgMerc_Imp	1 = Multiple imputations for missings	Numeric	8

Description
PreNatOrgMerc_Imp is a flag showing if *PreNatOrgMerc_1... PreNatOrgMerc_10* are imputed values.

Source
Created based on the value of *PreNatOrgMerc_1... PreNatOrgMerc_10.*

Codes and Valid Values
1 if imputed value
0 otherwise

3.4.4. Child Birth Conditions

3.4.4.1. C5APGARImpVal1… 10

Variable Name	Label	Data Type	Length
C5APGARImpVal1… 10	5-minute apgar	Numeric	8

Description
C5APGARImpVal1… C5APGARImpVal10 is the child's score on the 5 minute APGAR, which is a test given to newborns five minutes after birth to measure activity, pulse grimace, appearance, and respiration. Seventy-five records had missing values for the APGAR score. As described in Section 7.5 of the Technical Report, we employed a method of multiple imputation that involved adding random noise to the predicted value from a regression model to produce ten separate imputed values corresponding to each missing value. The data set includes ten separate indicators of the APGAR score to accommodate the ten multiple imputations. For records with non-missing data for the APGAR score, the values of the ten variables *C5APGARImpVal1… C5APGARImpVal10* are identical to one another. For the seventy-five records with imputed APGAR scores, the values of the ten variables *C5APGARImpVal1… C5APGARImpVal10* are potentially slightly different than another.

Source
Child medical record.

Codes and Valid Values
Minimum=4
Maximum=10

Variable Name	Label	Data Type	Length
C5APGAR_Imp	1 = Multiple imputations for missings	Numeric	8

Description
C5APGAR_Imp is a flag showing if *C5APGARImpVal1… C5APGARImpVal10* are imputed values.

Source
Created if C5*APGARImpVal1… C5APGARImpVal10* is missing.

Codes and Valid Values
1 if imputed value

3.4.4.2. Child Med Hist

Variable Name	Label	Data Type	Length
cMedicalHist_1	Head cm +/- 2 SD from Mean	Numeric	8

Description

cMedicalHist_1 is a binary indicator of whether head size more that +/- 2 standard deviations from the mean (by sex).

Source
Child and maternal medical records abstraction.

Codes and Valid Values
1 if child did have a "positive history"
0 if child did not have a "positive history".

3.4.5. Child Medical Conditions

3.4.5.1. IronDef_1

Variable Name	Label	Data Type	Length
IronDef_1	Anemia or iron deficiency	Numeric	8

Description
IronDef_1 is a binary indicator of the child's anemia or iron deficiency. =1 if iron deficiency and anemia is indicated at either the child's 12-month or 24-month checkup, or if all three of the following conditions are true: a) hemoglobin < 11.0 g/dl, b) mean corpuscular volume is < 70 μm^3 , and c) red-cell distribution width > 14.5% then the child is considered anemic or iron deficient. There are no imputed values.

Source
Child medical record.

Codes and Valid Values
1 if anemic or iron deficient
0 otherwise

3.4.5.2. ADHD_Meds

Variable Name	Label	Data Type	Length
ADHD_Meds	=1 if VSD_ADHD=1 OR Par Int ADHDMed	Numeric	8

Description
ADHD_Meds =1 if child used any of the following stimulant medications in the 12 hours prior to the clinical assessment: Focalin; Ritalin; Methylin; Ritalin SR; Methylin ER; Metadate ER; Ritalin LA; Metadate CD; Concerta; Desoxyn; Dextroamphetamine tablets (generic); DextroStat tablets; Dexedrine tablets; Adderall tablets; Dexedrine Spansules; Adderall XR capsules.

Source
Parent interview.

Codes and Valid Values

1 if ADHD medication indicated
0 otherwise

3.4.5.3. **ADHDstimulant**

Variable Name	Label	Data Type	Length
ADHDstimulant	ADHD stim in 12 hrs prior to assessment	Numeric	8

Description
ADHDstimulant is a binary indicator of whether or not the child has taken an ADHD stimulant drug within 12 hours of the time of the assessment.

Source
Parent interview.

Codes and Valid Values
1 if ADHD stimulant taken within 12 hours
0 otherwise

3.4.5.4. **ChdPICA_1..._10**

Variable Name	Label	Data Type	Length
ChdPICA_1..._10	Child Pica	Numeric	8

Description
ChdPICA_1... ChdPICA_10 is a binary indicator of whether the child has PICA, which is characterized by persistent and compulsive cravings (lasting 1 month or longer) to eat nonfood items. Ten records had missing values for an indicator of PICA. As described in Section 7.5 of the Technical Report, we employed a method of multiple imputation that involved adding random noise to the predicted value from a regression model to produce ten separate imputed values corresponding to each missing value. The data set includes ten separate indicators of PICA to accommodate the ten multiple imputations. For records with non-missing data for PICA indicators, the values of the ten variables *ChdPICA_1... ChdPICA_10* are identical to one another. For the ten records with imputed PICA indicators, the values of the ten variables *ChdPICA_1... ChdPICA_10* are potentially slightly different than another.

Source
Child medical record; parent interview.

Codes and Valid Values
1 if child has PICA
0 otherwise

Variable Name	Label	Data Type	Length
ChdPICA_Imp	1 = Multiple imputations for missings	Numeric	8

Description
ChdPICA_Imp is a flag showing if *ChdPICA_1… ChdPICA_10* are imputed values.

Source
Created based on the value of *ChdPICA_1… ChdPICA_10.*

Codes and Valid Values
1 if imputed value
0 otherwise

3.4.6. Maternal Diagnoses

3.4.6.1. MatLangDel

Variable Name	Label	Data Type	Length
MatLangDel	Maternal Language Delay	Numeric	8

Description
MatLangDel is a binary indicator of whether the mother was ever diagnosed with language delay.

Source
Maternal medical record; parent interview.

Codes and Valid Values
1 if mother diagnosed with language delay
0 otherwise

3.4.6.2. MatSpeechDel

Variable Name	Label	Data Type	Length
MatSpeechDel	Maternal speech delay	Numeric	8

Description
MatSpeechDel is a binary indicator of whether the mother was ever diagnosed with speech delay.

Source
Maternal medical record; parent interview.

Codes and Valid Values
1 if mother diagnosed with speech delay
0 otherwise

3.4.6.3. MatSTUTTER

Variable Name	Label	Data Type	Length

MatSTUTTER	Maternal stuttering	Numeric	8

Description
MatSTUTTER is a binary indicator of whether the mother stutters

Source
Maternal medical record; parent interview.

Codes and Valid Values
1 if mother stutters
0 otherwise

3.4.6.4. MatADHD

Variable Name	Label	Data Type	Length
MatADHD	Maternal ADHD	Numeric	8

Description
MatADHD is a binary indicator of whether the mother was ever diagnosed with ADHD or is taking ADHD drugs.

Source
Maternal medical record; parent interview.

Codes and Valid Values
1 if mother is diagnosed with ADHD or is taking ADHD drugs
0 otherwise

3.4.6.5. MatTIC

Variable Name	Label	Data Type	Length
MatTIC	Maternal tics	Numeric	8

Description
MatTIC is a binary indicator of whether the mother was ever diagnosed with tics.

Source
Maternal medical record; parent interview.

Codes and Valid Values
1 if mother is diagnosed with tics
0 otherwise

3.4.7. Quadratic and Cubic Functions of Variables

3.4.7.1. ChildAge2

Variable Name	Label	Data Type	Length
ChildAge2	ChildAge**2 (squared)	Numeric	8

Description
ChildAge2 is *ChildAge* squared.

Source
Created based on the value for *ChildAge.*

Codes and Valid Values
Minimum=50.01
Maximum=120.95

3.4.7.2. ChildAge3

Variable Name	Label	Data Type	Length
ChildAge3	ChildAge**3 (cubed)	Numeric	8

Description
ChildAge3 is *ChildAge* cubed.

Source
Created based on the value for *ChildAge.*

Codes and Valid Values
Minimum=353.67
Maximum=1330.25

3.4.7.3. PctPoverty1_2

Variable Name	Label	Data Type	Length
PctPoverty1_2	(PctPoverty1/100)**2 (squared)	Numeric	8

Description
PctPoverty1_2 *is* PctPoverty1 *squared.*

Source
Created based in the value for *PctPoverty1*.

Codes and Valid Values
Minimum=0.04
Maximum=515.12

3.4.7.4. PctPoverty1_3

Variable Name	Label	Data Type	Length

| PctPoverty1_3 | (PctPoverty1/100)**3 (cubed) | Numeric | 8 |

Description
PctPoverty1_3 *is* PctPoverty1 *cubed.*

Source
Created based in the value for *PctPoverty1.*

Codes and Valid Values
Minimum=0.01
Maximum=11691.4

3.4.7.5. HOME_TotalIndex2

Variable Name	Label	Data Type	Length
HOME_TotalIndex2	HOME_TotalIndex**2 (squared)	Numeric	8

Description
HOME_TotalIndex2 is *HOME_TotalIndex* squared.

Source
Created based on the value for *HOME_TotalIndex.*

Codes and Valid Values
Minimum=9
Maximum=256

3.4.7.6. HOME_TotalIndex3

Variable Name	Label	Data Type	Length
HOME_TotalIndex3	HOME_TotalIndex**3 (cubed)	Numeric	8

Description
HOME_TotalIndex3 is *HOME_TotalIndex* cubed.

Source
Created based on the value for *HOME_TotalIndex.*

Codes and Valid Values
Minimum=27
Maximum=4096

3.4.8.   Variables Used Only in Models for Finger Tapping Outcomes

Finger tapping tests for children aged 9 and above were slightly different than tests for younger children. Spline term allows for separate intercepts for children above and below 9 years. Spline*ChildAge and Spline*ChildAge2 terms allow for different age slopes for children above and below 9 years.

3.4.8.1. **Spline9**

Variable Name	Label	Data Type	Length
Spline9	=1 if *ChildAge* > 9.0; =0 Else	Numeric	8

Description
Created from *ChildAge* variable. *Spline9* =1 if *ChildAge* > 9.0; =0 Else

Source
Created based on the value for *ChildAge.*

Codes and Valid Values
Minimum=0
Maximum=1

3.4.8.2. **ChildAge_Spline9**

Variable Name	Label	Data Type	Length
ChildAge_Spline9	ChildAge * Spline9	Numeric	8

Description
Interaction term: ChildAge_Spline9 = ChildAge * Spline9

Source
Created based on the value for *ChildAge.*

Codes and Valid Values
Minimum=0
Maximum=10.99

3.4.8.3. **ChildAge2_Spline9**

Variable Name	Label	Data Type	Length
ChildAge2_Spline9	ChildAge^2 * Spline9	Numeric	8

Description
Interaction term between the square of child's age and the spline term:
ChildAge2_Spline9 = ChildAge^2 * Spline9

Source
Created based on the value for *ChildAge.*

Codes and Valid Values
Minimum=0
Maximum=120.95

3.5. OUTCOMES

3.5.1. Speech and Language

3.5.1.1. Lg_BNameAvRS (Boston Naming Test Raw Score)

Variable Name	Label	Data Type	Length
Lg_BNameAvRS	Boston Naming Test Raw Score	Numeric	8

Description
Lg_BNameAvRS is the raw score (adjusted for child age) of the Boston Naming Test which measures ability of naming vocabulary by the total number of correctly-named pictures.

Source
Assessment.

Codes and Valid Values
Minimum=14
Maximum=58

Variable Name	Label	Data Type	Length
Std_Lg_BNameAvRS	Boston Naming Test Raw Score	Numeric	8

Description
Std_Lg_BNameAvRS is the standard deviation of *Lg_BNameAvRS* used for calculation of standardized coefficients.

Source
Created from *Lg_BNameAvRS*.

3.5.1.2. Lg_SpNameAvRS (NEPSY Speeded Naming Raw Score)

Variable Name	Label	Data Type	Length
Lg_SpNameAvRS	NEPSY Speeded Naming Raw Score	Numeric	8

Description
Lg_SpNameAvRS is the raw total score (adjusted for child age) of the Speeded Naming subtest of the NEPSY which measures ability of rapid access to and production of names or recurring colors, sizes, and shapes. The total score is based on time to completion and total number correct.

Source
Assessment.

Codes and Valid Values
Minimum=1
Maximum=42

Variable Name	Label	Data Type	Length
Lg_SpNameAvSS	NEPSY Speeded Naming Scaled Score	Numeric	8

Description
Lg_SpNameAvSS is the scaled total score (adjusted for child age) of the Speeded Naming subtest of the NEPSY which measures ability of rapid access to and production of names or recurring colors, sizes, and shapes. The total score is based on time to completion and total number correct.

Source
Assessment.

Codes and Valid Values
Minimum=1
Maximum=16

Variable Name	Label	Data Type	Length
Std_Lg_SpNameAvRS	NEPSY Speeded Naming Raw Score	Numeric	8

Description
Std_Lg_SpNameAvRS is the standard deviation of *Lg_SpNameAvRS* used for calculation of standardized coefficients.

Source
Created from *Lg_SpNameAvRS*.

3.5.1.3. Lg_CmpInstAvRS (NEPSY Comprehension of Instructions Raw Score)

Variable Name	Label	Data Type	Length
Lg_CmpInstAvRS	NEPSY Comprehension of Instructions Raw Score	Numeric	8

Description
Lg_CmpInstAvRS is the raw score (adjusted for child age) of total correct responses of the Comprehension of Instruction subtest of the NEPSY which measures ability to process and respond quickly to verbal instructions of increasing syntactic complexity.

Source
Assessment.

Codes and Valid Values
Minimum=12
Maximum=28

Variable Name	Label	Data Type	Length
Lg_CmpInstAvSS	NEPSY Comprehension of Instructions Scaled Score	Numeric	8

Description
Lg_CmpInstAvSS is the scaled score (adjusted for child age) of total correct responses of the Comprehension of Instruction subtest of the NEPSY which measures ability to process and respond quickly to verbal instructions of increasing syntactic complexity.

Source
Assessment.

Codes and Valid Values
Minimum=1
Maximum=17

Variable Name	Label	Data Type	Length
Std_Lg_CmpInstAvRS	NEPSY Comprehension of Instructions Raw Score	Numeric	8

Description
Std_Lg_CmpInstAvRS is the standard deviation of *Lg_CmpInstAvRS* used for calculation of standardized coefficients..

Source
Created from Lg_CmpInstAvRS .

3.5.1.4. Lg_FormSentAvRS (CELF Formulated Sentences Raw Score)

Variable Name	Label	Data Type	Length
Lg_FormSentAvRS	CELF Formulated Sentences Raw Score	Numeric	8

Description
Lg_FormSentAvRS is the raw score (adjusted for child age) of the Formulated Sentence expressive language subtest of the Clinical Evaluation of Language Fundamentals-Third Edition (CELF-3) which measures completeness of sentences through formulation of simple, compound, and complex sentences.

Source
Assessment.

Codes and Valid Values
Minimum=0
Maximum=44

Variable Name	Label	Data Type	Length
Lg_FormSentAvSS	CELF Formulated Sentences Scaled Score	Numeric	8

Description
Lg_FormSentAvSS is the scaled score (adjusted for child age) of the Formulated Sentence expressive language subtest of the Clinical Evaluation of Language Fundamentals-Third Edition

(CELF-3) which measures completeness of sentences through formulation of simple, compound, and complex sentences.

Source
Assessment.

Codes and Valid Values
Minimum=3
Maximum=17

Variable Name	Label	Data Type	Length
Std_Lg_FormSentAvRS	CELF Formulated Sentences Raw Score	Numeric	8

Description
Std_Lg_FormSentAvRS is the standard deviation of *Lg_FormSentAvRS* used for calculation of standardized coefficients.

Source
Created from *Lg_FormSentAvRS*.

3.5.1.5. VM_RecallAvRS (CELF Recalling Sentences Raw Score)

Variable Name	Label	Data Type	Length
VM_RecallAvRS	CELF Recalling Sentences Raw Score	Numeric	8

Description
VM_RecallAvRS is the raw score (adjusted for child age) of the Recalling Sentences expressive language subtest of the Clinical Evaluation of Language Fundamentals-Third Edition (CELF-3) which measures accuracy of sentence recall through and reproduction of sentence surface structure as a function of syntactic complexity.

Source
Assessment.

Codes and Valid Values
Minimum=5
Maximum=78

Variable Name	Label	Data Type	Length
VM_RecallAvSS	CELF Recalling Sentences Scaled Score	Numeric	8

Description
VM_RecallAvSS is the scaled score (adjusted for child age) of the Recalling Sentences expressive language subtest of the Clinical Evaluation of Language Fundamentals-Third Edition (CELF-3) which measures accuracy of sentence recall through and reproduction of sentence surface structure as a function of syntactic complexity.

Source

Assessment.

Codes and Valid Values
Minimum=3
Maximum=17

Variable Name	Label	Data Type	Length
Std_VM_RecallAvRS	CELF Recalling Sentences Raw Score	Numeric	8

Description
Std_VM_RecallAvRS is the standard deviation of *VM_RecallAvRS* used for calculation of
standardized coefficients.

Source
Created from VM_RecallAvRS.

3.5.1.6. TC_GFTA_RS (GFTA: Articulation - Speech Raw Score)

Variable Name	Label	Data Type	Length
TC_GFTA_RS	GFTA: Articulation - Speech Raw Score	Numeric	8

Description
TC_GFTA_RS is the raw score (adjusted for child age) of the total number of articulation errors
of the Goldman-Fristoe 2 Test of Articulation (GFTA-2) which measures sounds in words in
spontaneous speech production of single words. An audio-recording is made of the child's
responses and is post-coded to a standard score.

Source
Assessment.

Codes and Valid Values
Minimum=0
Maximum=18

Variable Name	Label	Data Type	Length
TC_GFTA_PCC	GFTA: Articulation -	Numeric	8

Description
TC_GFTA_PCC is the percent consonants correct (adjusted for child age) of the Goldman-
Fristoe 2 Test of Articulation (GFTA-2) which measures sounds in words in spontaneous speech
production of single words. An audio-recording is made of the child's responses and is post-
coded to a percent consonants revised.

Source

Assessment.

Codes and Valid Values
Minimum=79.34
Maximum=100

Variable Name	Label	Data Type	Length
Std_TC_GFTA_PCC	GFTA: Articulation -	Numeric	8

Description
Std_TC_GFTA_PCC is the standard deviation of *TC_GFTA_PCC* used for calculation of standardized coefficients.

Source
Created from *TC_GFTA_PCC*.

Variable Name	Label	Data Type	Length
Std_TC_GFTA_RS	GFTA: Articulation - Speech Raw Score	Numeric	8

Description
Std_TC_GFTA_RS is the standard deviation of *TC_GFTA_RS* used for calculation of standardized coefficients.

Source
Created from *TC_GFTA_RS*.

Variable Name	Label	Data Type	Length
TC_GFTA_iSS	GFTA: Articulation - Speech Imputed Scaled Score	Numeric	8

Description
TC_GFTA_iSS is the imputed scaled score (adjusted for child age) of the total number of articulation errors of the Goldman-Fristoe 2 Test of Articulation (GFTA-2) which measures sounds in words in spontaneous speech production of single words. An audio-recording is made of the child's responses and is post-coded to a standard score. This score was created based on the value of *TC_GFTA_RS*, the raw score.

Source
Created based on value of *TC_GFTA_RS*.

Codes and Valid Values
Minimum=67
Maximum=109

3.5.1.7. St_CAStuttYN (Stuttering (current): Assessor rating)

Variable Name	Label	Data Type	Length

St_CAStuttYN	Stuttering (current): Assessor rating	Numeric	8

Description
St_CAStuttYN is a binary indicator of whether the clinical assessor indicated that the child stuttered with speech. If the child received a score at least 2 by the clinical assessor then *St_CAStuttYN* indicates stuttering. This criterion is based on the recommendation by the technical expert, who felt that very mild stuttering might not, in fact, really be stuttering.

Source
Created based on value of *St_CAStuttRS.*

Codes and Valid Values
1 if *St_CAStuttRS* greater than 1 indicating mild to severe stuttering
0 if *St_CAStuttRS* equal to 0 or 1 indicating non or very mild stuttering

Variable Name	Label	Data Type	Length
St_CAStuttRS	Stuttering (current): Assessor rating	Numeric	8

Description
St_CAStuttRS is a measure of the degree that the child stuttered during the testing session as reported by the clinical assessor. The severity is rated on a 7-point scale, where 1 = very mild and 7 = very severe.

Source
Assessment.

Codes and Valid Values
Minimum=0
Maximum=5

3.5.1.8. St_PStuttYN (Stuttering (current): Parent rating)

Variable Name	Label	Data Type	Length
St_PStuttYN	Stuttering (current): Parent rating	Numeric	8

Description
St_PStuttYN is a binary indicator of whether the parent indicated that the child stuttered with speech. If the child received a score at least 2 by the parent then *St_PStuttYN* indicates stuttering. This criterion is based on the recommendation by the technical expert, who felt that very mild stuttering might not, in fact, really be stuttering.

Source
Created based on value of *St_PstuttRS.*

Codes and Valid Values
1 if *St_PstuttRS* greater than 1 indicating mild to severe stuttering

0 if *St_PstuttRS* equal to 0 or 1 indicating non or very mild stuttering

Variable Name	Label	Data Type	Length
St_PStuttRS	Stuttering (current): Parent rating	Numeric	8

Description
St_PStuttRS is a measure of the degree that the child stuttered as reported by the parent. The severity is rated on a 7-point scale, where 1 = very mild and 7 = very severe.

Source
Parent rating.

Codes and Valid Values
Minimum=0
Maximum=7

3.5.1.9. St_TStuttYN (Stuttering (current): Teacher rating)

Variable Name	Label	Data Type	Length
St_TStuttYN	Stuttering (current): Teacher rating	Numeric	8

Description
St_TStuttYN is a binary indicator of whether the teacher indicated that the child stuttered with speech. If the child received a score at least 2 by the teacher then *St_TStuttYN* indicates stuttering. This criterion is based on the recommendation by the technical expert, who felt that very mild stuttering might not, in fact, really be stuttering.

Source
Created based on value of *St_TstuttRS.*

Codes and Valid Values
1 if *St_TstuttRS* greater than 1 indicating mild to severe stuttering
0 if *St_TstuttRS* equal to 0 or 1 indicating non or very mild stuttering

Variable Name	Label	Data Type	Length
St_TStuttRS	Stuttering (current): Teacher rating	Numeric	8

Description
St_TStuttRS is a measure of the degree that the child stuttered at school as reported by the teacher. The severity is rated on a 7-point scale, where 1 = very mild and 7 = very severe.

Source
Teacher rating.

Codes and Valid Values
Minimum=0
Maximum=7

3.5.2.   Verbal Memory

3.5.2.1. VM_ListAAvRS (CVLT-C List A Raw Score)

Variable Name	Label	Data Type	Length
VM_ListAAvRS	CVLT-C List A Raw Score	Numeric	8

Description
VM_ListAAvRS is the raw score the child received on the List A subtest of the California Verbal Learning Test – Children's Version (CVLT-C) which is a verbal list learning task consisting of 15 items. The child is read the list (List A) 5 consecutive times and is asked after each trial to recall as many of the word as possible. The raw score is the total number of words recalled.

Source
Assessment.

Codes and Valid Values
Minimum=0
Maximum=71

Variable Name	Label	Data Type	Length
VM_ListAAvSS	CVLT-C List A Scaled Score	Numeric	8

Description
VM_ListAAvSS is the scaled score the child received on the List A subtest of the California Verbal Learning Test – Children's Version (CVLT-C) which is a verbal list learning task consisting of 15 items. The child is read the list (List A) 5 consecutive times and is asked after each trial to recall as many of the word as possible. The scaled score is an adjustment of the total number of words recalled.

Source
Assessment.

Codes and Valid Values
Minimum=20
Maximum=80

Variable Name	Label	Data Type	Length
Std_VM_ListAAvRS	CVLT-C List A Raw Score	Numeric	8

Description

Std_VM_ListAAvRS is the standard deviation of *VM_ListAAvRS* used for calculation of standardized coefficients.

Source
Created from *VM_ListAAvRS.*

3.5.2.2. VM_ShortFreeAvRS (CVLT-C Short recall/Free delay Raw Score)

Variable Name	Label	Data Type	Length
VM_ShortFreeAvRS	CVLT-C Short recall/Free delay Raw Score	Numeric	8

Description
VM_ShortFreeAvRS is the raw score the child received on the Short Delay Free Recall subtest of the California Verbal Learning Test – Children's Version (CVLT-C). The child is read the list (List A) 5 consecutive times and is asked after each trial to recall as many of the word as possible. Then, a second word list (List B) is introduced one time before the child is asked to recall the first list (List A) after a short delay (3 min). The raw score is the total number of words recalled.

Source
Assessment.

Codes and Valid Values
Minimum=0
Maximum=15

Variable Name	Label	Data Type	Length
VM_ShortFreeAvSS	CVLT-C Short recall/Free delay Scaled Score	Numeric	8

Description
VM_ShortFreeAvSS is the scaled score the child received on the Short Delay Free Recall subtest of the California Verbal Learning Test – Children's Version (CVLT-C). The child is read the list (List A) 5 consecutive times and is asked after each trial to recall as many of the word as possible. Then, a second word list (List B) is introduced one time before the child is asked to recall the first list (List A) after a short delay (3 min). The scaled score is an adjustment of the total number of words recalled.

Source
Assessment

Codes and Valid Values
Minimum= -3.5
Maximum= 2.5

Variable Name	Label	Data Type	Length
Std_VM_ShortFreeAvRS	CVLT-C Short recall/Free delay Raw Score	Numeric	8

Description
Std_VM_ShortFreeAvRS is the standard deviation of *VM_ShortFreeAvRS* used for calculation of standardized coefficients.

Source
Created from *VM_ShortFreeAvRS*.

3.5.2.3. VM_ShortCueAvRS (VLT-C Short recall /Cued delay Raw Score)

Variable Name	Label	Data Type	Length
VM_ShortCueAvRS	CVLT-C Short recall /Cued delay Raw Score	Numeric	8

Description
VM_ShortCueAvRS is the raw score the child received on the Short Delay Cued Recall subtest of the California Verbal Learning Test – Children's Version (CVLT-C). The child is read the list (List A) 5 consecutive times and is asked after each trial to recall as many of the word as possible. Then, a second word list (List B) is introduced one time before the child is asked to recall the first list (List A) after a short delay (3 min). After the Short Delay Free Recall subtest, the child is given category cues to aid in the recall. The raw score is the total number of words recalled.

Source
Assessment.

Codes and Valid Values
Minimum=1
Maximum=15

Variable Name	Label	Data Type	Length
VM_ShortCueAvSS	CVLT-C Short recall /Cued delay Scaled Score	Numeric	8

Description
VM_ShortCueAvSS is the scaled score the child received on the Short Delay Cued Recall subtest of the California Verbal Learning Test – Children's Version (CVLT-C). The child is read the list (List A) 5 consecutive times and is asked after each trial to recall as many of the word as possible. Then, a second word list (List B) is introduced one time before the child is asked to recall the first list (List A) after a short delay (3 min). After the Short Delay Free Recall subtest, the child is given category cues to aid in the recall. The scaled score is an adjustment of the total number of words recalled.

Source
Assessment.

Codes and Valid Values
Minimum= -3.5

Maximum= 3

Variable Name	Label	Data Type	Length
Std_VM_ShortCueAvRS	CVLT-C Short recall /Cued delay Raw Score	Numeric	8

Description
Std_VM_ShortCueAvRS is the standard deviation of *VM_ShortCueAvRS* used for calculation of standardized coefficients.

Source
Created from *VM_ShortCueAvRS.*

3.5.2.4. VM_LongFreeAvRS (CVLT-C Long delay/Free recall Raw Score)

Variable Name	Label	Data Type	Length
VM_LongFreeAvRS	CVLT-C Long delay/Free recall Raw Score	Numeric	8

Description
VM_LongFreeAvRS is the raw score the child received on the Long Delay Free Recall subtest of the California Verbal Learning Test – Children's Version (CVLT-C). The child is read the list (List A) 5 consecutive times and is asked after each trial to recall as many of the word as possible. Then, a second word list (List B) is introduced one time before the child is asked to recall the first list (List A) after a short delay (3 min). After the Short Delay Free Recall subtest, the child is given category cues to aid in the recall. The CVLT-C is set aside for 20 minutes while the child completes nonverbal tasks. After the long delay, the child is asked to recall the words from List A. The raw score is the total number of words recalled.

Source
Assessment.

Codes and Valid Values
Minimum=0
Maximum=15

Variable Name	Label	Data Type	Length
VM_LongFreeAvSS	CVLT-C Long delay/Free recall Scaled Score	Numeric	8

Description
VM_LongFreeAvSS is the scaled score the child received on the Long Delay Free Recall subtest of the California Verbal Learning Test – Children's Version (CVLT-C). The child is read the list (List A) 5 consecutive times and is asked after each trial to recall as many of the word as possible. Then, a second word list (List B) is introduced one time before the child is asked to recall the first list (List A) after a short delay (3 min). After the Short Delay Free Recall subtest, the child is given category cues to aid in the recall. The CVLT-C is set aside for 20 minutes while the child completes nonverbal tasks. After the long delay, the child is asked to recall the words from List A. The scaled score is an adjustment of the total number of words recalled.

Source
Assessment.

Codes and Valid Values
Minimum= -4
Maximum= 3

Variable Name	Label	Data Type	Length
Std_VM_LongFreeAvRS	CVLT-C Long delay/Free recall Raw Score	Numeric	8

Description
Std_VM_LongFreeAvRS is the standard deviation of *VM_LongFreeAvRS* used for calculation of standardized coefficients.

Source
Created from *VM_LongFreeAvRS*.

3.5.2.5. VM_LongCueAvRS (CVLT-C Long delay /Cued recall Raw Score)

Variable Name	Label	Data Type	Length
VM_LongCueAvRS	CVLT-C Long delay /Cued recall Raw Score	Numeric	8

Description
VM_LongCueAvRS is the raw score the child received on the Long Delay Cued Recall subtest of the California Verbal Learning Test – Children's Version (CVLT-C). The child is read the list (List A) 5 consecutive times and is asked after each trial to recall as many of the word as possible. Then, a second word list (List B) is introduced one time before the child is asked to recall the first list (List A) after a short delay (3 min). After the Short Delay Free Recall subtest, the child is given category cues to aid in the recall. The CVLT-C is set aside for 20 minutes while the child completes nonverbal tasks. After the long delay, the child is asked to recall the words from List A. After the Long Delay Free Recall subtest, the child is given category cues to aid in the recall. The raw score is the total number of words recalled.

Source
Assessment.

Codes and Valid Values
Minimum=1
Maximum=15

Variable Name	Label	Data Type	Length
VM_LongCueAvSS	CVLT-C Long delay /Cued recall Scaled Score	Numeric	8

Description
VM_LongCueAvSS is the raw score the child received on the Long Delay Cued Recall subtest of the California Verbal Learning Test – Children's Version (CVLT-C). The child is read the list

(List A) 5 consecutive times and is asked after each trial to recall as many of the word as possible. Then, a second word list (List B) is introduced one time before the child is asked to recall the first list (List A) after a short delay (3 min). After the Short Delay Free Recall subtest, the child is given category cues to aid in the recall. The CVLT-C is set aside for 20 minutes while the child completes nonverbal tasks. After the long delay, the child is asked to recall the words from List A. After the Long Delay Free Recall subtest, the child is given category cues to aid in the recall. The scaled score is an adjustment of the total number of words recalled.

Source
Assessment.

Codes and Valid Values
Minimum= -3.5
Maximum= 2.5

Variable Name	Label	Data Type	Length
Std_VM_LongCueAvRS	CVLT-C Long delay /Cued recall Raw Score	Numeric	8

Description
Std_VM_LongCueAvRS is the standard deviation of *VM_LongCueAvRS* used for calculation of standardized coefficients.

Source
Created from *VM_LongCueAvRS*.

3.5.2.6. VM_CMS1AvRS (CMS Stories 1(Immediate Recall) Raw Score)

Variable Name	Label	Data Type	Length
VM_CMS1AvRS	CMS Stories 1(Immediate Recall) Raw Score	Numeric	8

Description
VM_CMS1AvRS is the raw score that the child received on the Stories 1 subtest of the Children's Memory Scale which measures the immediate recall of connected, meaningful text. The raw score (adjusted for child age) is the total number of correctly recalled story units post-coded from an audio recording.

Source
Assessment.

Codes and Valid Values
Minimum=0
Maximum=77

Variable Name	Label	Data Type	Length
VM_CMS1AvSS	CMS Stories 1(Immediate Recall) Scaled Score	Numeric	8

Description

VM_CMS1AvSS is the scaled score that the child received on the Stories 1 subtest of the Children's Memory Scale which measures the immediate recall of connected, meaningful text. The scaled score (adjusted for child age) is the adjusted total number of correctly recalled story units post-coded from an audio recording..

Source
Assessment.

Codes and Valid Values
Minimum=1
Maximum=19

Variable Name	Label	Data Type	Length
Std_VM_CMS1AvRS	CMS Stories 1(Immediate Recall) Raw Score	Numeric	8

Description
Std_VM_CMS1AvRS is the standard deviation of *VM_CMS1AvRS* used for calculation of standardized coefficients.

Source
Created from *VM_CMS1AvRS.*

3.5.2.7. VM_CMS2AvRS (CMS Stories 2(Delayed Recall) Raw Score)

Variable Name	Label	Data Type	Length
VM_CMS2AvRS	CMS Stories 2(Delayed Recall) Raw Score	Numeric	8

Description
VM_CMS2AvRS is the raw score that the child received on the Stories 2 subtest of the Children's Memory Scale which measures the delayed recall of connected, meaningful text. The raw score (adjusted for child age) is the total number of correctly recalled story units post-coded from an audio recording.

Source
Assessment.

Codes and Valid Values
Minimum=0
Maximum=76

Variable Name	Label	Data Type	Length
VM_CMS2AvSS	CMS Stories 2(Delayed Recall) Scaled Score	Numeric	8

Description
VM_CMS2AvSS is the scaled score that the child received on the Stories 2 subtest of the Children's Memory Scale which measures the delayed recall of connected, meaningful text. The scaled score (adjusted for child age) is the adjusted total number of correctly recalled story units post-coded from an audio recording.

Source
Assessment.

Codes and Valid Values
Minimum=1
Maximum=19

Variable Name	Label	Data Type	Length
Std_VM_CMS2AvRS	CMS Stories 2(Delayed Recall) Raw Score	Numeric	8

Description
Std_VM_CMS2AvRS is the standard deviation of *VM_CMS2AvRS* used for calculation of standardized coefficients.

Source
Created from *VM_CMS2AvRS*.

3.5.3. Achievement

3.5.3.1. Rd_LWIDAvRS (WJIII Letter Word Identification Raw Score)

Variable Name	Label	Data Type	Length
Rd_LWIDAvRS	WJIII Letter Word Identification Raw Score	Numeric	8

Description
Rd_LWIDAvRS is the raw "W" (Rasch logit score) of total number correct measuring letter-word identification with the Woodcock-Johnson Psycho-Educational Battery-Revised: Tests of Achievement. This assessment measures letter-word identification through phonemic awareness – the ability to match a rebus with actual picture and the ability to identify isolated letters and words.

Source
Assessment.

Codes and Valid Values
Minimum=16
Maximum=73

Variable Name	Label	Data Type	Length
Rd_LWIDAvSS	WJIII Letter Word Identification Scaled Score	Numeric	8

Description
Rd_LWIDAvSS is the scaled "W" (Rasch logit score) of total number correct measuring letter-word identification with the Woodcock-Johnson Psycho-Educational Battery-Revised: Tests of Achievement. This assessment measures letter-word identification through phonemic awareness

– the ability to match a rebus with actual picture and the ability to identify isolated letters and words.

Source
Assessment.

Codes and Valid Values
Minimum=47
Maximum=143

Variable Name	Label	Data Type	Length
Std_Rd_LWIDAvRS	WJIII Letter Word Identification Raw Score	Numeric	8

Description
Std_Rd_LWIDAvRS is the standard deviation of *Rd_LWIDAvRS* used for calculation of standardized coefficients.

Source
Created from *Rd_LWIDAvRS*.

3.5.4. Fine Motor Coordination

3.5.4.1. FM_PegDAvRS (Grooved Pegboard Dominant Hand Raw Score)

Variable Name	Label	Data Type	Length
FM_PegDAvRS	Grooved Pegboard Dominant Hand Raw Score	Numeric	8

Description
FM_PegDAvRS is the raw score (adjusted for child age) measuring manipulative dexterity of the dominant hand by the Grooved Pegboard Dominant Hand assessment. The raw score is the total time to completion.

Source
Assessment.

Codes and Valid Values
Minimum=21
Maximum=300

Variable Name	Label	Data Type	Length
Std_FM_PegDAvRS	Grooved Pegboard Dominant Hand Raw Score	Numeric	8

Description
Std_FM_PegDAvRS is the standard deviation of *FM_PegDAvRS* used for calculation of standardized coefficients.

Source
Created from *FM_PegDAvRS*.

3.5.4.2. FM_PegNDAvRS (Grooved Pegboard NonDominant Hand Raw Score)

Variable Name	Label	Data Type	Length
FM_PegNDAvRS	Grooved Pegboard NonDominant Hand Raw Score	Numeric	8

Description
FM_PegNDAvRS is the raw score (adjusted for child age) measuring manipulative dexterity of the non-dominant hand by the Grooved Pegboard Dominant Hand assessment. The raw score is the total time to completion.

Source
Assessment.

Codes and Valid Values
Minimum=20
Maximum=300

Variable Name	Label	Data Type	Length
Std_FM_PegNDAvRS	Grooved Pegboard NonDominant Hand Raw Score	Numeric	8

Description
Std_FM_PegNDAvRS is the standard deviation of *FM_PegNDAvRS* used for calculation of standardized coefficients.

Source
Created from *FM_PegNDAvRS*.

3.5.4.3. FM_TapDAvRS (Finger Tapping Dominant Hand Raw Score)

Variable Name	Label	Data Type	Length
FM_TapDAvRS	Finger Tapping Dominant Hand Raw Score	Numeric	8

Description
FM_TapDAvRS is the raw score (adjusted for child age) measuring manipulative dexterity of the dominant hand by the Finger Tapping Test (computerized version developed for Faroes' studies). The raw score is the maximum number of taps.

Source
Assessment.

Codes and Valid Values
Minimum=15.6

Maximum=107

Variable Name	Label	Data Type	Length
Std_FM_TapDAvRS	Finger Tapping Dominant Hand Raw Score	Numeric	8

Description
Std_FM_TapDAvRS is the standard deviation of *FM_TapDAvRS* used for calculation of standardized coefficients.

Source
Created from *FM_TapDAvRS*.

3.5.4.4. FM_TapNDAvRS (Finger Tapping NonDominant Hand Raw Score)

Variable Name	Label	Data Type	Length
FM_TapNDAvRS	Finger Tapping NonDominant Hand Raw Score	Numeric	8

Description
FM_TapNDAvRS is the raw score (adjusted for child age) measuring manipulative dexterity of the non-dominant hand by the Finger Tapping Test (computerized version developed for Faroes' studies). The raw score is the maximum number of taps.

Source
Assessment.

Codes and Valid Values
Minimum=15
Maximum=86

Variable Name	Label	Data Type	Length
Std_FM_TapNDAvRS	Finger Tapping NonDominant Hand Raw Score	Numeric	8

Description
Std_FM_TapNDAvRS is the standard deviation of *FM_TapNDAvRS* used for calculation of standardized coefficients.

Source
Created from *FM_TapNDAvRS*.

3.5.5.   Visual Spatial Ability

3.5.5.1. VP_CopyAvRS (Stanford Binet Copying Raw Score)

Variable Name	Label	Data Type	Length
VP_CopyAvRS	Stanford Binet Copying Raw Score	Numeric	8

Description
VP_CopyAvRS is the raw score of total number correct on the Copying subtest of the Stanford-Binet Intelligence Test which measures visuomotor coordination by reproducing designs with blocks and copying simple and complex geometric patterns from pictures on cards.

Source
Assessment.

Codes and Valid Values
Minimum=3
Maximum=28

Variable Name	Label	Data Type	Length
VP_CopyAvSS	Stanford Binet Copying Scaled Score	Numeric	8

Description
VP_CopyAvSS is the scaled score of total number correct on the Copying subtest of the Stanford-Binet Intelligence Test which measures visuomotor coordination by reproducing designs with blocks and copying simple and complex geometric patterns from pictures on cards.

Source
Assessment.

Codes and Valid Values
Minimum=26
Maximum=70

Variable Name	Label	Data Type	Length
Std_VP_CopyAvRS	Stanford Binet Copying Raw Score	Numeric	8

Description
Std_VP_CopyAvRS is the standard deviation of *VP_CopyAvRS* used for calculation of standardized coefficients.

Source
Created from *VP_CopyAvRS*.

3.5.6.   Attention Executive Functioning

3.5.6.1. IP_GDSCorAvRS (GDS Vigilance Correct Responses Raw Score)

Variable Name	Label	Data Type	Length
IP_GDSCorAvRS	GDS Vigilance Correct Responses Raw Score	Numeric	8

Description

IP_GDSCorAvRS is the raw score (adjusted for child age) of number of correct responses on the Gordon Diagnostic System Vigilance Task which measures the ability to respond accurately and quickly to presentation of paired numbers on screen.

Source
Assessment.

Codes and Valid Values
Minimum=0
Maximum=45

Variable Name	Label	Data Type	Length
Std_IP_GDSCorAvRS	GDS Vigilance Correct Responses Raw Score	Numeric	8

Description
Std_IP_GDSCorAvRS is the standard deviation of *IP_GDSCorAvRS* used for calculation of standardized coefficients.

Source
Created from *IP_GDSCorAvRS.*

3.5.6.2. IP_GDSErrAvRS (GDS Vigilance Commission Errors Raw Score)

Variable Name	Label	Data Type	Length
IP_GDSErrAvRS	GDS Vigilance Commission Errors Raw Score	Numeric	8

Description
IP_GDSErrAvRS is the raw score (adjusted for child age) of number of commissions on the Gordon Diagnostic System Vigilance Task which measures the ability to respond accurately and quickly to presentation of paired numbers on screen.

Source
Assessment.

Codes and Valid Values
Minimum=0
Maximum=162

Variable Name	Label	Data Type	Length
Std_IP_GDSErrAvRS	GDS Vigilance Commission Errors Raw Score	Numeric	8

Description
Std_IP_GDSErrAvRS is the standard deviation of *IP_GDSErrAvRS* used for calculation of standardized coefficients.

Source
Created from *IP_GDSErrAvRS.*

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3.5.6.3. VM_DigitFAvRS (WISC III Digit span, Forward recall Raw Score)

Variable Name	Label	Data Type	Length
VM_DigitFAvRS	WISC III Digit span, Forward recall Raw Score	Numeric	8

Description
VM_DigitFAvRS is the raw score (adjusted for child age) of the score for the forward Digit Span subtest of the Wechsler Intelligence Scale for Children, 3rd ed. (WISC III) which measures the memory for digit strings. The assessor dictates a series of digits and the child repeats them. The series begins with two digits and increases in length with two trials at each length.

Source
Assessment.

Codes and Valid Values
Minimum=3
Maximum=15

Variable Name	Label	Data Type	Length
Std_VM_DigitFAvRS	WISC III Digit span, Forward recall Raw Score	Numeric	8

Description
Std_VM_DigitFAvRS is the standard deviation of *VM_DigitFAvRS* used for calculation of standardized coefficients.

Source
Created from *VM_DigitFAvRS*.

3.5.6.4. VM_DigitBAvRS (WISC III Digit span, Backward recall Raw Score)

Variable Name	Label	Data Type	Length
VM_DigitBAvRS	WISC III Digit span, Backward recall Raw Score	Numeric	8

Description
VM_DigitBAvRS is the raw score (adjusted for child age) of the score for the backward Digit Span subtest of the Wechsler Intelligence Scale for Children, 3rd ed. (WISC III) which measures the memory for digit strings. The assessor dictates a series of digits and the child repeats them backwards. The series begins with two digits and increases in length with two trials at each length.

Source
Assessment.

Codes and Valid Values
Minimum=0
Maximum=13

Variable Name	Label	Data Type	Length
Std_VM_DigitBAvRS	WISC III Digit span, Backward recall Raw Score	Numeric	8

Description
Std_VM_DigitBAvRS is the standard deviation of *VM_DigitBAvRS* used for calculation of standardized coefficients.

Source
Created from *VM_DigitBAvRS*.

3.5.6.5. VM_DigitCAvRS (WISC III Digit span, Combined Raw Score)

Variable Name	Label	Data Type	Length
VM_DigitCAvRS	WISC III Digit span, Combined Raw Score	Numeric	8

Description
VM_DigitCAvRS is the raw score (adjusted for child age) of the combined score for the backward and forward Digit Span subtests of the Wechsler Intelligence Scale for Children, 3rd ed. (WISC III) which measures the memory for digit strings. In each assessment the assessor dictates a series of digits and the child repeats them either forwards or backwards. The series begins with two digits and increases in length with two trials at each length.

Source
Assessment.

Codes and Valid Values
Minimum=4
Maximum=26

Variable Name	Label	Data Type	Length
VM_DigitCAvSS	WISC III Digit span, Combined Scaled Score	Numeric	8

Description
VM_DigitCAvSS is the scaled score (adjusted for child age) of the combined score for the backward and forward Digit Span subtests of the Wechsler Intelligence Scale for Children, 3rd ed. (WISC III) which measures the memory for digit strings. In each assessment the assessor dictates a series of digits and the child repeats them either forwards or backwards. The series begins with two digits and increases in length with two trials at each length.

Source
Assessment.

Codes and Valid Values
Minimum=3
Maximum=19

Variable Name	Label	Data Type	Length

Std_VM_DigitCAvRS	WISC III Digit span, Combined Raw Score	Numeric	8

Description
Std_VM_DigitCAvRS is the standard deviation of *VM_DigitCAvRS* used for calculation of standardized coefficients.

Source
Created from *VM_DigitCAvRS*.

3.5.6.6. AD_PmetaRS (Brief Parent Rating: Metacognition Raw Score)

Variable Name	Label	Data Type	Length
AD_PmetaRS	Brief Parent Rating: Metacognition Raw Score	Numeric	8

Description
AD_PmetaRS is the raw score the child received from the parent questionnaire on the metacognition index of the Behavior Rating Inventory of Executive Function (BRIEF) which measures the child's ability to plan, organize, and sustain future-oriented problem solving in working memory.

Source
Parent rating.

Codes and Valid Values
Minimum=44
Maximum=128

Variable Name	Label	Data Type	Length
AD_Pmeta01	Brief Parent Rating: Metacognition Scaled 0/1 Score	Numeric	8

Description

AD_Pmeta01 is a binary indicator of the child's scaled score from the parent questionnaire on the metacognition index of the Behavior Rating Inventory of Executive Function (BRIEF). If the child received a scaled score less than 65 and the child did not take ADHD medication as determined by the variable *ADHD_Meds* then *AD_Pmeta01* is 0. If the child received a scaled score greater than or equal to 65 or if the child took ADHD medication as determined by the variable *ADHD_Meds* then *AD_Pmeta01* is 1.

Source
Based on the values of *ADHD_Meds* and *AD_PmetaSS*.

Codes and Valid Values
1 if *ADHD_Meds* = 1 or *AD_PmetaSS* >= 65.

0 if *ADHD_Meds* ^= 1 and *AD_PmetaSS* < 65
. otherwise

Variable Name	Label	Data Type	Length
AD_PmetaSS	Brief Parent Rating: Metacognition Scaled Score	Numeric	8

Description
AD_PmetaSS is the scaled score the child received from the parent questionnaire on the metacognition index of the Behavior Rating Inventory of Executive Function (BRIEF) which measures the child's ability to plan, organize, and sustain future-oriented problem solving in working memory.

Source
Parent rating.

Codes and Valid Values
Minimum=30
Maximum=92

Variable Name	Label	Data Type	Length
Std_AD_PmetaRS	Brief Parent Rating: Metacognition Raw Score	Numeric	8

Description
Std_AD_PmetaRS is the standard deviation of *AD_PmetaRS* used for calculation of standardized coefficients.

Source
Created from *AD_PmetaRS*.

3.5.6.7. AD_TmetaRS (Brief Teacher Rating: Metacognition Raw Score)

Variable Name	Label	Data Type	Length
AD_TmetaRS	Brief Teacher Rating: Metacognition Raw Score	Numeric	8

Description
AD_TmetaRS is the raw score the child received from the teacher questionnaire on the metacognition index of the Behavior Rating Inventory of Executive Function (BRIEF) which measures the child's ability to plan, organize, and sustain future-oriented problem solving in working memory.

Source
Teacher rating.

Codes and Valid Values
Minimum=44
Maximum=129

Variable Name	Label	Data Type	Length
AD_Tmeta01	Brief Teacher Rating: Metacognition Scaled 0/1 Score	Numeric	8

Description
AD_Tmeta01 is a binary indicator of the child's scaled score from the teacher questionnaire on the metacognition index of the Behavior Rating Inventory of Executive Function (BRIEF). If the child received a scaled score less than 65 and the child did not take ADHD medication as determined by the variable *ADHD_Meds* then *AD_Tmeta01* is 0. If the child received a scaled score greater than or equal to 65 or if the child took ADHD medication as determined by the variable *ADHD_Meds* then *AD_Tmeta01* is 1.

Source
Based on the values of *ADHD_Meds* and *AD_TmetaSS*.

Codes and Valid Values
1 if *ADHD_Meds* = 1 or *AD_TmetaSS* >= 65.
0 if *ADHD_Meds* ^= 1 and *AD_TmetaSS* < 65
. otherwise

Variable Name	Label	Data Type	Length
AD_TmetaSS	Brief Teacher Rating: Metacognition Scaled Score	Numeric	8

Description
AD_TmetaSS is the scaled score the child received from the teacher questionnaire on the metacognition index of the Behavior Rating Inventory of Executive Function (BRIEF) which measures the child's ability to plan, organize, and sustain future-oriented problem solving in working memory.

Source
Teacher rating.

Codes and Valid Values
Minimum=32
Maximum=108

Variable Name	Label	Data Type	Length
Std_AD_TmetaRS	Brief Teacher Rating: Metacognition Raw Score	Numeric	8

Description
Std_AD_TmetaRS is the standard deviation of *AD_TmetaRS* used for calculation of standardized coefficients.

Source

Created from *AD_TmetaRS.*

3.5.6.8. AD_PhyperRS (Conners Parent Hyperactive/Impulsive Cluster Raw Score)

Variable Name	Label	Data Type	Length
AD_PhyperRS	Conners Parent Hyperactive/Impulsive Cluster Raw Score	Numeric	8

Description
AD_PhyperRS is the raw score the child received from the parent report of the Conners' Rating Scales –Revised which measures hyperactive/impulsive behavior by a cluster of symptoms on DSM-IV diagnosis of ADHD, predominantly hyperactivity-impulsivity.

Source
Parent rating.

Codes and Valid Values
Minimum=26
Maximum=82

Variable Name	Label	Data Type	Length
AD_Phyper01	Conners Parent Hyperactive/Impulsive Cluster Scaled 0/1 Score	Numeric	8

Description
AD_Phyper01 is a binary indicator of the child's scaled score from the parent report of the Conners' Rating Scales –Revised which measures hyperactive/impulsive behavior by a cluster of symptoms on DSM-IV diagnosis of ADHD, predominantly hyperactivity-impulsivity. If the child received a scaled score less than 65 and the child did not take ADHD medication as determined by the variable *ADHD_Meds* then *AD_Phyper01* is 0. If the child received a scaled score greater than or equal to 65 or if the child took ADHD medication as determined by the variable *ADHD_Meds* then *AD_Phyper01* is 1.

Source
Based on the values of *ADHD_Meds* and *AD_PhyperSS.*

Codes and Valid Values
1 if *ADHD_Meds* = 1 or *AD_PhyperSS* >= 65.
0 if *ADHD_Meds* ^= 1 and *AD_PhyperSS* < 65
. otherwise

Variable Name	Label	Data Type	Length
AD_PhyperSS	Conners Parent Hyperactive/Impulsive Cluster Scaled Score	Numeric	8

Description

AD_PhyperSS is the scaled score the child received from the parent report of the Conners' Rating Scales –Revised which measures hyperactive/impulsive behavior by a cluster of symptoms on DSM-IV diagnosis of ADHD, predominantly hyperactivity-impulsivity

Source
Parent rating.

Codes and Valid Values
Minimum=33
Maximum=88

Variable Name	Label	Data Type	Length
Std_AD_PhyperRS	Conners Parent Hyperactive/Impulsive Cluster Raw Score	Numeric	8

Description
Std_AD_PhyperRS is the standard deviation of *AD_PhyperRS* used for calculation of standardized coefficients.

Source
Created from *AD_PhyperRS*.

3.5.6.9. **AD_ThyperRS (Conners Teacher Hyperactive/Impulsive Cluster Raw Score)**

Variable Name	Label	Data Type	Length
AD_ThyperRS	Conners Teacher Hyperactive/Impulsive Cluster Raw Score	Numeric	8

Description
AD_ThyperRS is the raw score the child received from the teacher report of the Conners' Rating Scales –Revised which measures hyperactive/impulsive behavior by a cluster of symptoms on DSM-IV diagnosis of ADHD, predominantly hyperactivity-impulsivity.

Source
Teacher rating.

Codes and Valid Values
Minimum=29
Maximum=87

Variable Name	Label	Data Type	Length
AD_Thyper01	Conners Teacher Hyperactive/Impulsive Cluster Scaled 0/1 Score	Numeric	8

Description
AD_Thyper01 is a binary indicator of the child's scaled score from the teacher report of the Conners' Rating Scales –Revised which measures hyperactive/impulsive behavior by a cluster of

symptoms on DSM-IV diagnosis of ADHD, predominantly hyperactivity-impulsivity. If the child received a scaled score less than 65 and the child did not take ADHD medication as determined by the variable *ADHD_Meds* then *AD_Thyper01* is 0. If the child received a scaled score greater than or equal to 65 or if the child took ADHD medication as determined by the variable *ADHD_Meds* then *AD_Thyper01* is 1.

Source
Based on the values of *ADHD_Meds* and *AD_ThyperSS*.

Codes and Valid Values
1 if *ADHD_Meds* = 1 or *AD_ThyperSS* >= 65.
0 if *ADHD_Meds* ^= 1 and *AD_ThyperSS* < 65
. otherwise

Variable Name	Label	Data Type	Length
AD_ThyperSS	Conners Teacher Hyperactive/Impulsive Cluster Scaled Score	Numeric	8

Description
AD_ThyperSS is the scaled score the child received from the teacher report of the Conners' Rating Scales –Revised which measures hyperactive/impulsive behavior by a cluster of symptoms on DSM-IV diagnosis of ADHD, predominantly hyperactivity-impulsivity.

Source
Teacher rating.

Codes and Valid Values
Minimum=37
Maximum=124

Variable Name	Label	Data Type	Length
Std_AD_ThyperRS	Conners Teacher Hyperactive/Impulsive Cluster Raw Score	Numeric	8

Description
Std_AD_ThyperRS is the standard deviation of *AD_ThyperRS* used for calculation of standardized coefficients.

Source
Created from *AD_ThyperRS*.

3.5.6.10. AD_PinattentRS (Conners Parent Inattentive Raw Score)

Variable Name	Label	Data Type	Length
AD_PinattentRS	Conners Parent Inattentive Raw Score	Numeric	8

Description

AD_PinattentRS is the raw score the child received from the parent report of the Conners' Rating Scales –Revised which measures inattentive behavior by a cluster of symptoms on DSM-IV diagnosis of ADHD, predominantly inattentiveness.

Source
Parent rating.

Codes and Valid Values
Minimum=26
Maximum=82

Variable Name	Label	Data Type	Length
AD_Pinattent01	Conners Parent Inattentive Scaled 0/1 Score	Numeric	8

Description
AD_Pinattent01 is a binary indicator of the child's scaled score from the parent report of the Conners' Rating Scales –Revised which measures inattentive behavior by a cluster of symptoms on DSM-IV diagnosis of ADHD, predominantly inattentiveness. If the child received a scaled score less than 65 and the child did not take ADHD medication as determined by the variable *ADHD_Meds* then *AD_Thyper01* is 0. If the child received a scaled score greater than or equal to 65 or if the child took ADHD medication as determined by the variable *ADHD_Meds* then *AD_Pinattent01* is 1.

Source
Based on the values of *ADHD_Meds* and *AD_PinattentSS*.

Codes and Valid Values
1 if *ADHD_Meds* = 1 or *AD_PinattentSS* >= 65.
0 if *ADHD_Meds* ^= 1 and *AD_PinattentSS* < 65
. otherwise

Variable Name	Label	Data Type	Length
AD_PinattentSS	Conners Parent Inattentive Scaled Score	Numeric	8

Description
AD_PinattentSS is the scaled score the child received from the parent report of the Conners' Rating Scales –Revised which measures inattentive behavior by a cluster of symptoms on DSM-IV diagnosis of ADHD, predominantly inattentiveness.

Source
Parent rating.
Codes and Valid Values
Minimum=33
Maximum=88

Variable Name	Label	Data Type	Length
Std_AD_PinattentRS	Conners Parent Inattentive Raw Score	Numeric	8

Description
Std_AD_PinattentRS is the standard deviation of *AD_PinattentRS* used for calculation of
standardized coefficients.

Source
Created from *AD_PinattentRS.*

3.5.6.11.   AD_TinattentRS (Conners Teacher Inattentive Raw Score)

Variable Name	Label	Data Type	Length
AD_TinattentRS	Conners Teacher Inattentive Raw Score	Numeric	8

Description
AD_TinattentRS is the raw score the child received from the teacher report of the Conners'
Rating Scales –Revised which measures inattentive behavior by a cluster of symptoms on DSM-
IV diagnosis of ADHD, predominantly inattentiveness.

Source
Teacher rating.

Codes and Valid Values
Minimum=29
Maximum=87

Variable Name	Label	Data Type	Length
AD_Tinattent01	Conners Teacher Inattentive Scaled 0/1 Score	Numeric	8

Description
AD_Tinattent01 is a binary indicator of the child's scaled score from the teacher report of the
Conners' Rating Scales –Revised which measures inattentive behavior by a cluster of symptoms
on DSM-IV diagnosis of ADHD, predominantly inattentiveness. If the child received a scaled
score less than 65 and the child did not take ADHD medication as determined by the variable
ADHD_Meds then *AD_Thyper01* is 0. If the child received a scaled score greater than or equal to
65 or if the child took ADHD medication as determined by the variable *ADHD_Meds* then
AD_Tinattent01 is 1.

Source
Based on the values of *ADHD_Meds* and *AD_TinattentSS.*

Codes and Valid Values
1 if *ADHD_Meds* = 1 or *AD_TinattentSS* >= 65.
0 if *ADHD_Meds* ^= 1 and *AD_TinattentSS* < 65
. otherwise

Variable Name	Label	Data Type	Length

Variable Name	Label	Data Type	Length
AD_TinattentSS	Conners Teacher Inattentive Scaled Score	Numeric	8

Description
AD_TinattentSS is the scaled score the child received from the teacher report of the Conners'
Rating Scales –Revised which measures inattentive behavior by a cluster of symptoms on DSM-
IV diagnosis of ADHD, predominantly inattentiveness.

Source
Teacher rating.

Codes and Valid Values
Minimum=37
Maximum=124

Variable Name	Label	Data Type	Length
Std_AD_TinattentRS	Conners Teacher Inattentive Raw Score	Numeric	8

Description
Std_AD_TinattentRS is the standard deviation of *AD_TinattentRS* used for calculation of
standardized coefficients.

Source
Created from *AD_TinattentRS*.

3.5.6.12. AD_PBehavRS (Brief Parent Rating: Behavior Regulation Raw Score)

Variable Name	Label	Data Type	Length
AD_PBehavRS	Brief Parent Rating: Behavior Regulation Raw Score	Numeric	8

Description
AD_PBehavRS is the raw score the child received from the parent questionnaire on the behavior
regulation index of the Behavior Rating Inventory of Executive Function (BRIEF) which
measures the child on three clinical scales: inhibit, shift, and emotional control.

Source
Parent rating.

Codes and Valid Values
Minimum=26
Maximum=82

Variable Name	Label	Data Type	Length
AD_Pbehav01	Brief Parent Rating: Behavior Regulation Scaled 0/1 Score	Numeric	8

Description
AD_Pbehav01 is a binary indicator of the child's scaled score from the parent questionnaire on the behavior regulation index of the Behavior Rating Inventory of Executive Function (BRIEF). If the child received a scaled score less than 65 and the child did not take ADHD medication as determined by the variable *ADHD_Meds* then *AD_Pbehav01* is 0. If the child received a scaled score greater than or equal to 65 or if the child took ADHD medication as determined by the variable *ADHD_Meds* then *AD_Pbehav01* is 1.

Source
Based on the values of *ADHD_Meds* and *AD_PbehavSS*.

Codes and Valid Values
1 if *ADHD_Meds* = 1 or *AD_PBehavSS* >= 65.
0 if *ADHD_Meds* ^= 1 and *AD_PBehavSS* < 65
. otherwise

Variable Name	Label	Data Type	Length
AD_PBehavSS	Brief Parent Rating: Behavior Regulation Scaled Score	Numeric	8

Description
AD_PBehavSS is the scaled score the child received from the parent questionnaire on the behavior regulation index of the Behavior Rating Inventory of Executive Function (BRIEF) which measures the child on three clinical scales: inhibit, shift, and emotional control.

Source
Parent rating.

Codes and Valid Values
Minimum=33
Maximum=88

Variable Name	Label	Data Type	Length
Std_AD_PBehavRS	Brief Parent Rating: Behavior Regulation Raw Score	Numeric	8

Description
Std_AD_PBehavRS is the standard deviation of *AD_PbehavRS* used for calculation of standardized coefficients.

Source
Created from *AD_PbehavRS*.

3.5.6.13. AD_TBehavRS (Brief Teacher Rating: Behavior Regulation Raw Score)

Variable Name	Label	Data Type	Length

Variable Name	Label	Data Type	Length
AD_TBehavRS	Brief Teacher Rating: Behavior Regulation Raw Score	Numeric	8

Description
AD_TBehavRS is the raw score the child received from the teacher questionnaire on the behavior regulation index of the Behavior Rating Inventory of Executive Function (BRIEF) which measures the child on three clinical scales: inhibit, shift, and emotional control.

Source
Teacher rating.

Codes and Valid Values
Minimum=29
Maximum=87

Variable Name	Label	Data Type	Length
AD_TBehav01	Brief Teacher Rating: Behavior Regulation Scaled 0/1 Score	Numeric	8

Description
AD_TBehav01 is a binary indicator of the child's scaled score from the teacher questionnaire on the behavior regulation index of the Behavior Rating Inventory of Executive Function (BRIEF). If the child received a scaled score less than 65 and the child did not take ADHD medication as determined by the variable *ADHD_Meds* then *AD_TBehav01* is 0. If the child received a scaled score greater than or equal to 65 or if the child took ADHD medication as determined by the variable *ADHD_Meds* then *AD_TBehav01* is 1.

Source
Based on the values of *ADHD_Meds* and *AD_TbehavSS*.

Codes and Valid Values
1 if *ADHD_Meds* = 1 or *AD_TBehavSS* >= 65.
0 if *ADHD_Meds* ^= 1 and *AD_TBehavSS* < 65
. otherwise

Variable Name	Label	Data Type	Length
AD_TBehavSS	Brief Teacher Rating: Behavior Regulation Scaled Score	Numeric	8

Description
AD_TBehavSS is the scaled score the child received from the teacher questionnaire on the behavior regulation index of the Behavior Rating Inventory of Executive Function (BRIEF) which measures the child on three clinical scales: inhibit, shift, and emotional control.

Source
Teacher rating.

Codes and Valid Values
Minimum=37
Maximum=124

Variable Name	Label	Data Type	Length
Std_AD_TBehavRS	Brief Teacher Rating: Behavior Regulation Raw Score	Numeric	8

Description
Std_AD_TBehavRS is the standard deviation of *AD_TbehavRS* used for calculation of standardized coefficients.

Source
Created from *AD_TbehavRS.*

3.5.7.   Tics

3.5.7.1. Tc_CAMotorYN (Motor tics (current): Assessor rating Y/N)

Variable Name	Label	Data Type	Length
Tc_CAMotorYN	Motor tics (current): Assessor rating Y/N	Numeric	8

Description
Tc_CAMotorYN is a binary indicator of any motor tic observed by the clinical assessor during the testing session.

Source
Based on the value of *Tc_CAMotorRS.*

Codes and Valid Values
1 if *Tc_CAMotorRS* > 0
0 if *Tc_CAMotorRS* = 0
. otherwise

Variable Name	Label	Data Type	Length
Tc_CAMotorRS	Motor tics (current): Assessor Rating Number Observed	Numeric	8

Description
Tc_CAMotorRS is a measure of the child's motor tics reported by the clinical assessor during the testing session. Motor tics include a variety of sudden, brief, rapid meaningless movements including eye blinking, head jerking, tapping, etc… A list of possible motor tics was given to the assessor and *Tc_CAMotorRS* is the number of these pre-selected tics that the assessor reported. It is not the number of times the motor tics occurred.

Source
Assessment.

Codes and Valid Values
Minimum=0
Maximum=9

3.5.7.2. Tc_CAPhonicYN (Phonic tics (current): Assessor rating Y/N)

Variable Name	Label	Data Type	Length
Tc_CAPhonicYN	Phonic tics (current): Assessor rating Y/N	Numeric	8

Description
Tc_CAPhonicYN is a binary indicator of any phonic tic observed by the clinical assessor during the testing session.

Source
Based on the value of *Tc_PhonicRS*.

Codes and Valid Values
1 if *Tc_CAPhonicRS* > 0
0 if *Tc_CAPhonicRS* = 0
. otherwise

Variable Name	Label	Data Type	Length
Tc_CAPhonicRS	Phonic tics (current): Assessor Rating Number Observed	Numeric	8

Description
Tc_CAPhonicRS is a measure of the child's phonic tics reported by the clinical assessor during the testing session. Phonic tics include a variety of sudden, utterances, meaningless sounds or noises, including throat clearing, sniffing, animal or bird noises, repeating things people have said, etc… A list of possible phonic tics was given to the assessor and *Tc_CAPhonicRS* is the number of these pre-selected tics that the assessor reported. It is not the number of times the phonic tics occurred.

Source
Assessment.

Codes and Valid Values
Minimum=0
Maximum=5

Variable Name	Label	Data Type	Length
Tc_CATotalRS	Total tics (current): Assessor Rating Number Observed	Numeric	8

Description
Tc_CATotalRS is a measure of the child's total tics, including motor and phonic tics, reported by the clinical assessor during the testing session. A list of possible phonic and motor tics was given to the assessor and *Tc_CATotalRS* is the number of these pre-selected tics that the assessor reported. It is not the number of times the tics occurred. For more information on motor and phonic tics, please see the descriptions of *Tc_CAMotorRS* and *Tc_CAPhonicRS*.

Source
Assessment.

Codes and Valid Values
Minimum=0
Maximum=13

3.5.7.3. Tc_PWeekMotorYN (Motor tics (current): Parent rating this week Y/N)

Variable Name	Label	Data Type	Length
Tc_PWeekMotorYN	Motor tics (current): Parent rating this week Y/N	Numeric	8

Description
Tc_PWeekMotorYN is a binary indicator of any motor tic observed by the parent the week prior to testing.

Source
Based on the value of *Tc_PWeekMotorRS*.

Codes and Valid Values
1 if *Tc_PWeekMotorRS* > 0
0 if *Tc_PWeekMotorRS* = 0
. otherwise

Variable Name	Label	Data Type	Length
Tc_PEverMotorYN	Motor tics (current): Parent rating Ever Y/N	Numeric	8

Description
Tc_PEverMotorYN is a binary indicator of any motor tic ever observed by the parent.

Source
Based on the value of *Tc_PEverMotorRS*.

Codes and Valid Values
1 if *Tc_PEverMotorRS* > 0
0 if *Tc_PEverMotorRS* = 0

. otherwise

Variable Name	Label	Data Type	Length
Tc_PEverMotorRS	Motor tics (current): Parent rating Number Ever	Numeric	8

Description
Tc_PEverMotorRS is a measure of the child's motor tics reported by the parent. Motor tics include a variety of sudden, brief, rapid meaningless movements including eye blinking, head jerking, tapping, etc… A list of possible motor tics was given to the parent and *Tc_PEverMotorRS* is the number of these pre-selected tics that the parent reported have ever occurred. It is not the number of times the motor tics occurred.

Source
Parent rating.

Codes and Valid Values
Minimum=0
Maximum=16

Variable Name	Label	Data Type	Length
Tc_PEverPhonicRS	Phonic tics (current): Parent rating Number Ever	Numeric	8

Description
Tc_PEverPhonicRS is a measure of the child's phonic tics reported by the parent. Phonic tics include a variety of sudden, utterances, meaningless sounds or noises, including throat clearing, sniffing, animal or bird noises, repeating things people have said, etc… A list of possible phonic tics was given to the parent and *Tc_PEverPhonicRS* is the number of these pre-selected tics that the parent reported have ever occurred. It is not the number of times the phonic tics occurred.

Source
Parent rating.

Codes and Valid Values
Minimum=0
Maximum=10

Variable Name	Label	Data Type	Length
Tc_PWeekMotorRS	Motor tics (current): Parent rating Number this week	Numeric	8

Description
Tc_PWeekMotorRS is a measure of the child's motor tics reported by the parent during the past week. Motor tics include a variety of sudden, brief, rapid meaningless movements including eye blinking, head jerking, tapping, etc… A list of possible motor tics was given to the parent and *Tc_PWeekMotorRS* is the number of these pre-selected tics that the parent reported have occurred within the past week. It is not the number of times the motor tics occurred.

Source
Parent rating.

Codes and Valid Values
Minimum=0
Maximum=10

3.5.7.4. Tc_PWeekPhonicYN (Phonic tics (current): Parent rating this week Y/N)

Variable Name	Label	Data Type	Length
Tc_PWeekPhonicYN	Phonic tics (current): Parent rating this week Y/N	Numeric	8

Description
Tc_PWeekPhonicYN is a binary indicator of any phonic tic observed by the parent during the week prior to testing.

Source
Based on the value of *Tc_PWeekPhonicRS*.

Codes and Valid Values
1 if *Tc_PWeekPhonicRS* > 0
0 if *Tc_PWeekPhonicRS* = 0
. otherwise

Variable Name	Label	Data Type	Length
Tc_PEverPhonicYN	Phonic tics (current): Parent rating Ever Y/N	Numeric	8

Description
Tc_PEverPhonicYN is a binary indicator of any phonic tic ever observed by the parent.

Source
Based on the value of *Tc_PEverPhonicRS*.

Codes and Valid Values
1 if *Tc_PEverPhonicRS* > 0
0 if *Tc_PEverPhonicRS* = 0
. otherwise

Variable Name	Label	Data Type	Length
Tc_PWeekPhonicRS	Phonic tics (current): Parent rating Number this week	Numeric	8

Description
Tc_PWeekPhonicRS is a measure of the child's phonic tics reported by the parent during the week prior to the testing session. Phonic tics include a variety of sudden, utterances, meaningless sounds or noises, including throat clearing, sniffing, animal or bird noises, repeating

things people have said, etc… A list of possible phonic tics was given to the parent and *Tc_PWeekPhonicRS* is the number of these pre-selected tics that the parent reported. It is not the number of times the phonic tics occurred.

Source
Parent rating.

Codes and Valid Values
Minimum=0
Maximum=9

Variable Name	Label	Data Type	Length
Tc_PEverTotalRS	Tics Parent Reported Total Number Ever	Numeric	8

Description
Tc_PEverTotalRS is a measure of the child's total tics, including motor and phonic tics, reported by the parent. A list of possible phonic and motor tics was given to the parent and *Tc_PEverTotalRS* is the number of these pre-selected tics that the parent reported have ever occurred. It is not the number of times the tics occurred. For more information on motor and phonic tics, please see the descriptions of *Tc_PWeekMotorRS* and *Tc_PWeekPhonicRS*.

Source
Parent rating.

Codes and Valid Values
Minimum=0
Maximum=20

Variable Name	Label	Data Type	Length
Tc_PWeekTotalRS	Tics Parent Reported Total Number This Week	Numeric	8

Description
Tc_PWeekTotalRS is a measure of the child's total tics, including motor and phonic tics, reported by the parent. A list of possible phonic and motor tics was given to the parent and *Tc_PWeekTotalRS* is the number of these pre-selected tics that the parent reported have occurred within the week prior to testing. It is not the number of times the tics occurred. For more information on motor and phonic tics, please see the descriptions of *Tc_PWeekMotorRS* and *Tc_PWeekPhonicRS*.

Source
Parent rating.

Codes and Valid Values
Minimum=0
Maximum=15

3.5.8. General Intellectual Functioning

3.5.8.1. IF_VIQAvSS (WASI Verbal IQ)

Variable Name	Label	Data Type	Length
IF_VIQAvSS	WASI Verbal IQ	Numeric	8

Description
IF_VIQAvSS is the scaled score adjusted for age that the child received on the verbal scale of the Wechsler Abbreviated Scale of Intelligence which is composed of the Vocabulary and Similarities subtests. The Vocabulary subtest measures expressive vocabulary and cognitive abilities, while the Similarities subtest measures verbal concept and verbal reasoning ability.

Source
Assessment.

Codes and Valid Values
Minimum=62
Maximum=153

Variable Name	Label	Data Type	Length
Std_IF_VIQAvSS	WASI Verbal IQ	Numeric	8

Description
Std_IF_VIQAvSS is the standard deviation of *IF_VIQAvSS* used for calculation of standardized coefficients.

Source
Created from *IF_VIQAvSS*.

3.5.8.2. IF_PIQAvSS (WASI Performance IQ)

Variable Name	Label	Data Type	Length
IF_PIQAvSS	WASI Performance IQ	Numeric	8

Description
IF_PIQAvSS is the scaled score adjusted for age that the child received on the performance scale of the Wechsler Abbreviated Scale of Intelligence which is the sum of the *T* scores on the Block Design and Matrix Reasoning subtests. The Block Design subtest measures perceptual organization, while the Matrix Reasoning subtest measures nonverbal fluid reasoning.

Source
Assessment.

Codes and Valid Values
Minimum=67
Maximum=147

Variable Name	Label	Data Type	Length
Std_IF_PIQAvSS	WASI Performance IQ	Numeric	8

Description
Std_IF_PIQAvSS is the standard deviation of *IF_PIQAvSS* used for calculation of standardized coefficients.

Source
Created from *IF_PIQAvSS.*

3.5.8.3. IF_FSIQAvSS (WASI Full Scale IQ)

Variable Name	Label	Data Type	Length
IF_FSIQAvSS	WASI Full Scale IQ	Numeric	8

Description
IF_FSIQAvSS is the scaled score adjusted for age that the child received on the full scale of the Wechsler Abbreviated Scale of Intelligence which is composed of the verbal and performance scales. The verbal scale is composed of the Vocabulary and Similarities subtests. The Vocabulary subtest measures expressive vocabulary and cognitive abilities, while the Similarities subtest measures verbal concept and verbal reasoning ability. The performance scale is composed of the Block Design and Matrix Reasoning subtests. The Block Design subtest measures perceptual organization, while the Matrix Reasoning subtest measures nonverbal fluid reasoning.

Source
Assessment.

Codes and Valid Values
Minimum=71
Maximum=153

Variable Name	Label	Data Type	Length
Std_IF_FSIQAvSS	WASI Full Scale IQ	Numeric	8

Description
Std_IF_FSIQAvSS is the standard deviation of *IF_FSIQAvSS* used for calculation of standardized coefficients.

Source
Created from *IF_FSIQAvSS.*

Variable Name	Label	Data Type	Length
IF_BlockAvRS	WASI Block Design Raw Score	Numeric	8

Description
IF_BlockAvRS is the raw score the child received on the Block Design subtest of the Wechsler Abbreviated Scale of Intelligence which measures perceptual organization.

Source
Assessment.

Codes and Valid Values
Minimum=0
Maximum=68

Variable Name	Label	Data Type	Length
IF_BlockAvSS	WASI Block Design Scaled Score	Numeric	8

Description
IF_BlockAvSS is the scaled score adjusted for age that the child received on the Block Design subtest of the Wechsler Abbreviated Scale of Intelligence which measures perceptual organization.

Source
Assessment.

Codes and Valid Values
Minimum=27
Maximum=80

Variable Name	Label	Data Type	Length
IF_MatrixAvRS	WASI Matrix Reas. Raw Score	Numeric	8

Description
IF_MatrixAvRS is the raw score the child received on the Matrix Reasoning subtest of the Wechsler Abbreviated Scale of Intelligence which measures nonverbal fluid reasoning.

Source
Assessment.

Codes and Valid Values
Minimum=0
Maximum=32

Variable Name	Label	Data Type	Length
IF_MatrixAvSS	WASI Matrix Reas. Scaled Score	Numeric	8

Description
IF_MatrixAvSS is the scaled score adjusted for age that the child received on the Matrix Reasoning subtest of the Wechsler Abbreviated Scale of Intelligence which measures nonverbal fluid reasoning.

Source
Assessment.

Codes and Valid Values
Minimum=21
Maximum=73

Variable Name	Label	Data Type	Length
IF_SimAvRS	WASI Similaritiies Raw Score	Numeric	8

Description
IF_SimAvRS is the raw score the child received on the Similarities subtest of the Wechsler Abbreviated Scale of Intelligence which measures verbal concept and verbal reasoning ability.

Source
Assessment.

Codes and Valid Values
Minimum=1
Maximum=41

Variable Name	Label	Data Type	Length
IF_SimAvSS	WASI Similaritiies Scaled Score	Numeric	8

Description
IF_SimAvSS is the scaled score adjusted for age that the child received on the Similarities subtest of the Wechsler Abbreviated Scale of Intelligence which measures verbal concept and verbal reasoning ability.

Source
Assessment.

Codes and Valid Values
Minimum=20
Maximum=80

Variable Name	Label	Data Type	Length
Std_IF_SimAvSS	WASI Similaritiies Scaled Score	Numeric	8

Description
Std_IF_SimAvSS is the standard deviation of *IF_SimAvSS* used for calculation of standardized coefficients.

Source
Created from *IF_SimAvSS*.

Variable Name	Label	Data Type	Length
IF_VocAvRS	WASI Vocabulary Raw Score	Numeric	8

Description
IF_VocAvRS is the raw score the child received on the Vocabulary subtest of the Wechsler Abbreviated Scale of Intelligence which measures expressive vocabulary and cognitive abilities.

Source
Assessment.

Codes and Valid Values
Minimum=12
Maximum=61

Variable Name	Label	Data Type	Length
IF_VocAvSS	WASI Vocabulary Scaled Score	Numeric	8

Description
IF_VocAvSS is the scaled score adjusted for age that the child received on the Vocabulary subtest of the Wechsler Abbreviated Scale of Intelligence which measures expressive vocabulary and cognitive abilities.

Source
Assessment.

Codes and Valid Values
Minimum=20
Maximum=80

Variable Name	Label	Data Type	Length
Std_IF_VocAvSS	WASI Vocabulary Scaled Score	Numeric	8

Description
Std_IF_VocAvSS is the standard deviation of *IF_VocAvSS* used for calculation of standardized coefficients.

Source
Created from *IF_VocAvSS*.