

## Codebook for SAS dataset furthcjasn2011r, N=586 records

Analysis dataset for the paper **Metabolic abnormalities, cardiovascular disease risk factors, and GFR decline in children with chronic kidney disease** by Furth et al., *Clin J Am Soc Nephrol* 6: 2132-2140, 2011.

Unless noted in the descriptions, all data were collected at the first baseline visit (visit=10).

Variable Name	Description	Variable Coding
CASEID	Participant ID number	Discrete, continuous
AGE	Current age, years	Continuous
AGE4TO16	Participant age 4 to 16?	1=Yes 0=No
AGE8TO16	Participant age 8 to 16?	1=Yes 0=No
AGE12TO16	Participant age 12 to 16?	1=Yes 0=No
MALE1FE0	Child's gender	1=Male 0=Female
RACECAT	Race category	1=Caucasian (white) 2=African-American (black) 3=Multiracial or other
HISP	Hispanic Ethnicity?	0=No (Not Hispanic Ethnicity) 1=Yes (Hispanic ethnicity)
PRIMDX	Primary CKD diagnosis code	10= Focal segmental glomerulosclerosis 11= Hemolytic uremic syndrome 12= Familial nephritis (Alport's) 13= IgA Nephropathy (Berger's) 14= Systemic immunological disease (including SLE) 15= Chronic glomerulonephritis 16= Membranoproliferative glomerulonephritis type I 17= Idiopathic crescentic glomerulonephritis 18= Membranous nephropathy 19= Henoch schonlein nephritis 20= Congenital nephrotic syndrome 21= Membranoproliferative glomerulonephritis type II 22= Sickle cell nephropathy 23= Denys-Drash syndrome 24= Diabetic nephropathy 40= Glomerular Other 50= Obstructive uropathy 51= Aplastic/hypoplastic/dysplastic kidneys 52= Reflux nephropathy 53= Polycystic kidney disease (Autosomal recessive) 54= Cystinosis 55= Pyelonephritis/Interstitial

Variable Name	Description	Variable Coding
		nephritis 56= Renal infarct 57= Medullary cystic disease/Juvenile nephronophthisis 58= Syndrome of agenesis of abdominal musculature 59= Wilms' tumor 60= Polycystic kidney disease (Autosomal dominant) 61= Oxalosis 62= Congenital Urologic Disease (Bilateral Hydronephrosis) 63= Vactrel or Vater Syndrome 64= Perinatal Asphyxia 65= Branchio-oto-Renal Disease/Syndrome 66= Methylmalonic Acidemia 80= Non-Glomerular Other
DIAG	Diagnosis Group	1= Glomerular Diagnosis 2= Non-Glomerular Diagnosis
WTPCT	Weight percentile based on age & gender	Continuous
HTPCT	Height/length percentile based on age & gender	Continuous
HTPCTAGE_chg	Height velocity, percentile/year (between enrollment and baseline visit)	Continuous
BMIPCTGT90	BMI percentile (based on age & gender) greater than 90 <sup>th</sup> percentile	1=Yes 0=No
BMIPCTLT15	BMI percentile (based on age & gender) less than 15 <sup>th</sup> percentile	1=Yes 0=No
LBW	low birth weight (BW<2500 g)	1=Yes 0=No
SGA	small for gestational age	1=Yes 0=No
TANNER	Tanner Stage	1= Stage 1 2= Stage 2 3= Stage 3 4= Stage 4 5= Stage 5
MOMAGEV1	Maternal age at baseline visit	Continuous
DADAGEV1	Paternal age at baseline visit	Continuous
MOMBMI	Maternal Body Mass Index	Continuous
DADBMI	Paternal Body Mass Index	Continuous
MOMHTCM	Maternal Height, cm	Continuous
DADHTCM	Paternal Height, cm	Continuous
DIA	Either parent with history of diabetes	1=Yes 0=No
HCL	Either parent with history of high cholesterol	1=Yes 0=No
STRHBP	Either parent with history of stroke or high blood pressure	1=Yes 0=No

<b>Variable Name</b>	<b>Description</b>	<b>Variable Coding</b>
PRIV0PUB1UNINS2	Insurance type	0= private insurance 1= public insurance 2= uninsured
RLCHLOR	Result: Chloride (mmol/L)	Continuous
RLPOTAS	Result: Potassium (mmol/L)	Continuous
RLSODIUM	Result: Sodium (mmol/L)	Continuous
RLURCREA	Result: Urine creatinine (mg/dL)	Continuous
RLURPROT	Result: Urine protein (mg/dL)	Continuous
RL_ALB	Serum albumin	Continuous
RL_CAL	Result: Calcium (mg/dL)	Continuous
RL_GLUC	Result: Glucose (mg/dL)	Continuous
RL_PHOS	Result: Phosphate (mg/dL)	Continuous
CYC_DAKO	Cystatin based on DAKO assay (assayed at CMH)	Continuous
SCr	Serum Creatinine, collected from L05 (CBL) or L03 (Local)	Continuous
BUN	BUN, collected from L05 (CBL) or L03 (Local)	Continuous
BM_CO2	Locally measured Result: Carbon dioxide (MEQ/L or mmol/L)	Continuous
CB_HCT	Result: PCV - Hematocrit (%)	Continuous
CB_HGB	Result: Hemoglobin (g/dL)	Continuous
CB_PLT	Result: Platelet Count (K/cu mm) or (x10-3 uL)	Continuous
CB_RCD	Result: Red Cell Distribution Width (%)	Continuous
CB_WBC	Result: Leukocyte Count (cu mm)	Continuous
ITFERRTN	Ferritin	Continuous
ITSRIRON	Serum Iron (ug/dL)	Continuous
ITTSAT	Transferrin Saturation (TSAT) (%)	Continuous
LP_HDL	Result: high density lipoproteins (mg/dL), baseline measurement at visit=20	Continuous
LP_LDL	Result: low density lipoproteins (mg/dL), baseline measurement at visit=20	Continuous
LP_TCHL	Result: cholesterol (mg/dL), baseline measurement at visit=20	Continuous
LP_TRYG	Result: total triglycerides (mg/dL), baseline measurement at visit=20	Continuous
TCHLHIGH	High cholesterol based on gender and age cut-offs	1=Yes 0=No
HDL_LOW	Low HDL based on gender and age cut-offs	1=Yes 0=No
LDLHIGH	High non-HDL lipoproteins based on gender and age cut-offs	1=Yes 0=No
TRYGHIGH	High triglycerides based on gender and age cut-offs	1=Yes 0=No
PCWRCRP	Result: Wide Range C-Reactive Protein (mg/L), baseline measurement at visit=15	Continuous
WRCRPCAT	wrCRP category	1= <=0.3 2= 0.3 to <=3.0 3= >3.0
PCR	Urine protein:creatinine	Continuous

Variable Name	Description	Variable Coding
iGFR	iGFR (ml/min 1.73m <sup>2</sup> )	Continuous
ieGFR_304050	ieGFR category	1= ieGFR >=50 2= ieGFR >=40 to <50 3= ieGFR >=30 to <40 4= ieGFR <30
GFRLT30	ieGFR less than 30 ml/min 1.73m <sup>2</sup>	1= Yes (<30) 0= No
GFR30T40	ieGFR between 30 to <40 ml/min 1.73m <sup>2</sup>	1= Yes (>=30 to <40) 0= No
GFR40T50	ieGFR between 40 to <50 ml/min 1.73m <sup>2</sup>	1= Yes (>=40 to <50) 0= No
SBPPCT	Systolic BP percentile based on age, gender & height	Continuous
SHYP	casual systolic hypertension, SBP>= 95 <sup>th</sup> percentile for age, sex and height	1=Yes (Systolic hypertensive) 0=No (non-hypertensive)
DBPPCT	Diastolic BP percentile based on age, gender & height	Continuous
DHYP	casual diastolic hypertension, DBP>= 95 <sup>th</sup> percentile for age, sex and height	1=Yes (Diastolic hypertensive) 0=No (non-hypertensive)
TRUEHYP	Combined systolic and diastolic hypertensions (SHYP & DHYP or self-reported hypertension & on antihyp medication)	1=Yes 0=No
BPLE2READS	Less than 2 blood pressure readings	1=Yes (less than 2 readings) 0=No (2 or more readings)
SYSPCTDIPLT10	Systolic Percent Dipping less than 10%, baseline measurement at visit=20	1=Yes 0=No
DIAPCTDIPLT10	Diastolic Percent Dipping less than 10%, baseline measurement at visit=20	1=Yes 0=No
LVMl	LVM index (units gr/m <sup>**2.7</sup> ), baseline measurement at visit=20	Continuous
LVH	Left Ventricle Hypertrophy, baseline measurement at visit=20	1=Yes 0=No
SYDALTG0	Symptoms: decreased alertness, past 30 days	1=Yes 0=No
SYLAPPG0	Symptoms: loss of appetite, past 30 days	1=Yes 0=No
SYLGPNG0	Symptoms: leg pain, past 30 days	1=Yes 0=No
SYWEAKG0	Symptoms: weakness, past 30 days	1=Yes 0=No
ACEi	Current use of ACE inhibitor, past 30 days	1=Yes 0=No
ARB	Current use of ARB, past 30 days	1=Yes 0=No
ALKTHRPY	Current use of alkali therapy, past 30 days	1=Yes 0=No
ESArx	Current use of erythropoetin stimulating agent, past 30 days	1=Yes 0=No
FEsupp	Current use of iron supplement, past 30 days	1=Yes 0=No

<b>Variable Name</b>	<b>Description</b>	<b>Variable Coding</b>
GRWTHHOR	Current use of growth hormone, past 30 days	1=Yes 0=No
LIPLOWRX	Current use of lipid lowering medication, past 30 days	1=Yes 0=No
ANEMIA	Anemia, (Hb< 5th %ile or current use of ESA)	1=Yes 0=No
ELEVK	Elevate potassium >5.2 for ages 2-17 and >5.1 for ages 17+	1=Yes 0=No
HIGHPHOS	Elevated phosphat based on gender and age cut-offs	1=Yes 0=No
HTLT3PCT	Growth failure, height less than 3 <sup>rd</sup> percentile for all ages	1=Yes 0=No
LOCCO2LT21	Acidotic, CO2 < 21 mmol/L	1=Yes 0=No
noESAonly_ANEMIA	Anemia, (Hb< 5th %ile or current use of ESA) (Excluding ESA medication use only)	1=Yes 0=No
nomed_ANEMIA	Anemia, (Hb< 5th %ile or current use of ESA) (Excluding medication use)	1=Yes 0=No
nomed_ELEVK	Elevate potassium >5.2 for ages 2-17 and >5.1 for ages 17+ (Excluding medication use)	1=Yes 0=No
nomed_HIGHPHOS	Elevated phospage based on gender and age cut-offs (Excluding medication use)	1=Yes 0=No
nomed_HTLT3PCT	Growth failure, height less than 3 <sup>rd</sup> percentile for all ages (Excluding medication use)	1=Yes 0=No
nomed_LOCCO2LT21	Acidotic, CO2 < 21 mmol/L (Excluding medication use)	1=Yes 0=No
nomed_TCHLHIGH	High cholesterol based on gender and age cut-offs (Excluding medication use)	1=Yes 0=No