



HOKKAIDO UNIVERSITY

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1st Phase-Core Variables Inventory

Basic Information	
Name of Birth Cohort	
Abbreviation	
Country/ City	
Website	
Principal investigator	
Institute	
Email	
Telephone	
Fax	
Co-Principal investigator	
Institute	
Email	
Telephone	
Contact person	
Institute	
Email	
Telephone	
Fax	

Basic Description			
Main aim of cohort			
Recruited number of:			
☐ Children	No:	☐ Mother	No:
☐ Grandparents	No:	☐ Other family members	No:
Source population	Hospital/Community based/other		
Approximate proportion of source population included			%
Dates of enrollment	Start:	End:	
Enrollment period			
Enrollment criteria, please specify			
Exclusion criteria, please specify			
Planned age of children at end of follow-up			
Key reference, introduction about the birth cohort			

Questionnaire or registry data and biological samples

Children		
Birth Outcome		
Birth weight	☐ No	☐ Yes
Birth length	☐ No	☐ Yes
Birth order	☐ No	☐ Yes
Gestational age at birth	☐ No	☐ Yes
Apgar score	☐ No	☐ Yes
Congenital malformations	☐ No	☐ Yes
Stillbirth (> = 22 Weeks)	☐ No	☐ Yes
Preterm birth	☐ No	☐ Yes
Intrauterine growth retardation	☐ No	☐ Yes
Low birth weight	☐ No	☐ Yes
Small for gestational age	☐ No	☐ Yes
Child sex	☐ No	☐ Yes
Please add an item		
Child exposure		
Passive smoking	☐ No	☐ Yes
Breast feeding	☐ No	☐ Yes
Diet (complementary foods)	☐ No	☐ Yes

Physical activity	☐ No	☐ Yes
Medicine intake	☐ No	☐ Yes
Vaccinations	☐ No	☐ Yes
Outdoor air pollution	☐ No	☐ Yes
Indoor contaminants	☐ No	☐ Yes
Please add an item		
Child's growth and development		
Weight	☐ No	☐ Yes
Height	☐ No	☐ Yes
Head circumference	☐ No	☐ Yes
Chest circumference	☐ No	☐ Yes
Cognitive measures	☐ No	☐ Yes
Language	☐ No	☐ Yes
Neurodevelopment	☐ No	☐ Yes
Behavior	☐ No	☐ Yes
Sexual maturation	☐ No	☐ Yes
Please add an item		
Social factors		
Please add an item		

Diet and nutrition			
Please add an item			
Child biological sample			
Umbilical cord blood	☐ No	☐ Yes	
Whole blood	☐ No	☐ Yes	
Serum/ plasma	☐ No	☐ Yes	
Urine	☐ No	☐ Yes	
Hair	☐ No	☐ Yes	
Teeth	☐ No	☐ Yes	
Nails	☐ No	☐ Yes	
Saliva	☐ No	☐ Yes	
Please add an item			
Child's outcome assessment			
Outcome	Biomarker	Maternal	Child
Atopic disease	IgE, IgA	☐ blood ☐ urine ☐ others()	☐ cord blood ☐ peripheral blood ☐ urine ☐ others()
Endocrine system disruption	Thyroid gland function (T3, T4 and TSH)	☐ blood ☐ urine ☐ others()	☐ cord blood ☐ peripheral blood ☐ urine ☐ others()
	Sex hormones	☐ blood ☐ urine ☐ others()	☐ cord blood ☐ peripheral blood ☐ urine ☐ others()

Infectious disease	IgM of toxoplasma and cytomegalovirus	☐ blood ☐ urine ☐ others()	☐ cord blood ☐ peripheral blood ☐ urine ☐ others()
Please add an item		☐ blood ☐ urine ☐ others()	☐ cord blood ☐ peripheral blood ☐ urine ☐ others()

Mothers	
Maternal characteristics related to the index pregnancy	
Ethnicity	☐ No ☐ Yes
Mode of delivery	☐ No ☐ Yes
Age at birth	☐ No ☐ Yes
Weight gain during pregnancy	☐ No ☐ Yes
Spontaneous abortions (<22 w.)	☐ No ☐ Yes
Weight	☐ No ☐ Yes
Height	☐ No ☐ Yes
Education	☐ No ☐ Yes
Family income	☐ No ☐ Yes
Occupation	☐ No ☐ Yes
Single parenthood	☐ No ☐ Yes
Please add an item	☐
	☐
	☐

Maternal Exposures		
Physical activity	☐ No	☐ Yes
Tobacco smoking	☐ No	☐ Yes
Passive smoking	☐ No	☐ Yes
Alcohol consumption	☐ No	☐ Yes
Substance abuse	☐ No	☐ Yes
Medicine intake	☐ No	☐ Yes
Diet	☐ No	☐ Yes
Stress	☐ No	☐ Yes
Occupational hazards	☐ No	☐ Yes
Outdoor air pollution	☐ No	☐ Yes
Indoor contaminants	☐ No	☐ Yes
Please add an item		
Maternal biological samples		
Breast milk	☐ No	☐ Yes
Placenta	☐ No	☐ Yes
Serum/ plasma	☐ No	☐ Yes
Urine	☐ No	☐ Yes
Hair	☐ No	☐ Yes
Nails	☐ No	☐ Yes
Saliva	☐ No	☐ Yes
Please add an item		

Environmental Exposures Measurement			
Exposure	Contaminant		
Air pollution	PM _{2.5} , PM ₁₀ , NO ₂ , HCHO, VOCs	☐ Outdoors	☐ Indoors
	Please add an item		
Exposure	Contaminant	Maternal specimen	Child's specimen
Phenol	Bisphenol A	☐ blood ☐ urine ☐ others()	☐ cord blood ☐ peripheral blood ☐ urine ☐ others()
Heavy metals		☐ blood ☐ urine ☐ others()	☐ cord blood ☐ peripheral blood ☐ urine ☐ others()
Pesticides	Organophosphates,	☐ blood ☐ urine ☐ others()	☐ cord blood ☐ peripheral blood ☐ urine ☐ others()
	organochlorine	☐ blood ☐ urine ☐ others()	☐ cord blood ☐ peripheral blood ☐ urine ☐ others()
Nutrients	Folate	☐ blood ☐ urine ☐ others()	☐ cord blood ☐ peripheral blood ☐ urine ☐ others()
Organohalogenes	Perfluorinated compounds (PFCs)	☐ blood ☐ urine ☐ others()	☐ cord blood ☐ peripheral blood ☐ urine ☐ others()
	Chlorinated hydrocarbons	☐ blood ☐ urine ☐ others()	☐ cord blood ☐ peripheral blood ☐ urine ☐ others()
	brominated hydrocarbones	☐ blood ☐ urine ☐ others()	☐ cord blood ☐ peripheral blood ☐ urine ☐ others()
Organochlorine	Dioxins	☐ blood ☐ urine	☐ cord blood ☐ peripheral blood

Environmental Exposures Measurement			
Exposure	Contaminant		
compounds		☐ others()	☐ urine ☐ others()
	PCBs, OH-PCBs	☐ blood ☐ urine ☐ others()	☐ cord blood ☐ peripheral blood ☐ urine ☐ others()
Plasticizers	Phthalate	☐ blood ☐ urine ☐ others()	☐ cord blood ☐ peripheral blood ☐ urine ☐ others()
Tobacco smoke	cotinine	☐ blood ☐ urine ☐ others()	☐ cord blood ☐ peripheral blood ☐ urine ☐ others()
Please add an item		☐ blood ☐ urine ☐ others()	☐ cord blood ☐ peripheral blood ☐ urine ☐ others()

Genetic and epigenetic factors	Maternal specimen	Child's specimen
Polymorphism	☐ blood ☐ others()	☐ cord blood ☐ peripheral blood ☐ others()
DNA Methylation	☐ blood ☐ others()	☐ cord blood ☐ peripheral blood ☐ others()

Outcome assessment		
Outcome	Measurement tools	Participants
Allergic disease	ISAAC questionnaires	☐ Child ☐ others ()
Behavior	CBCL	☐ Child ☐ others ()
	SNAP-IV	☐ Child ☐ others ()
Neurodevelopment	NNE-C	☐ Child ☐ others ()
	CDIIT	☐ Child ☐ others ()
	Bayley II	☐ Child ☐ others ()
	IQ	☐ Child ☐ others ()
	Movement ABC	☐ Child ☐ others ()
Stress	Parenting Stress Index/short form	☐ Child ☐ others ()
Temperament	The Toddler Temperament Scale	☐ Child ☐ others ()
Please add an item		

Comments and ideas