Evaluation of Sex-Specific Effects of Nutrition in Children born Early (ESSENCE-IPD)

Data dictionary

If possible please use the suggested coding below when submitting your trial data. Please provide information on all infants even if individuals were excluded from analysis.

(1) Spreadsheet/ file one (Infant characteristics at trial entry)

Variable	Variable name in data file	Suggested coding
Study	STUDYID	Any unique coding may be used
Unique study/Baby ID	BABYID	Any unique coding may be used
Date of Birth	DOB	Date in dd/mm/yyyy format
Sex	SEX	1=Male 2=Female .=unknown
Estimated gestational age at birth	BTH_AGE	Numeric value (in days) 777 = not collected in trial 999 = missing for this baby
Birthweight	BTH_WT	Numeric value (in grams) 7777 = not collected in trial 9999 = missing for this baby
Length at birth	BTH_LG	Numeric value (in cm) 777 = not collected in trial 999 = missing for this baby
Head circumference at birth	BTH_HC	Numeric value (in cm) 777 = not collected in trial 999 = missing
Single/multiple	SINGLETWIN	1= single gestation 2= multiple gestation 9=missing for this baby .=unknown
If multiple, order of birth	NGEST	1=1st baby (in multiple gestation) 2=2nd baby (in multiple gestation) 3=3rd baby (in multiple gestation) 4=4th baby (in multiple gestation) 9=missing for this baby .=unknown
Weight at trial entry	ENTRY_WT	Numeric value (in g) 7777 = not collected in trial 9999 = missing for this baby
Length at trial entry	ENTRY_LG	Numeric value (in cm) 777 = not collected in trial 999 = missing for this baby
Head circumference at trial entry	ENTRY_HC	Numeric value (in cm) 777 = not collected in trial 999 = missing for this baby
Date of randomisation	RAND_DATE	Date in dd/mm/yyyy format
Date of discharge	DISCHARGE_DATE	Date in dd/mm/yyyy format
Age at discharge (corrected age)	DISCHARGE_AGE	Numeric value (in days) 777 = not collected in trial 999 = missing for this baby
Treatment group	GROUP	Character (30)
Nutrition Intervention		
Age at commencement of nutritional supplement	AGE_START	Numeric value (in days) 777 = not collected in trial 999 = missing for this baby
Age at ceasing the nutritional supplement	AGE_CEASE	Numeric value (in days) 777 = not collected in trial 999 = missing for this baby

Protein intake	PROTEIN_INTAKE	Numeric value (average in g/kg/day during intervention period) 777 = not collected in trial 999 = missing for this baby
Fat intake	FAT_INTAKE	Numeric value (average in g/kg/day during intervention period) 777 = not collected in trial 999 = missing for this baby
Carbohydrate intake	CARBON_INTAKE	Numeric value (average in g/kg/day during intervention period) 777 = not collected in trial 999 = missing for this baby
Energy intake	ENERGY_INTAKE	Numeric value (average in kcal/kg/day during intervention period) 777 = not collected in trial 999 = missing for this baby
Maternal Expressed breastmilk	BREASTMILK	Numeric value (average in ml/kg/day during intervention period) 777 = not collected in trial 999 = missing for this baby
Donor expressed breastmilk	DONOR_BREASTMILK	Numeric value (average in ml/kg/day during intervention period) 777 = not collected in trial 999 = missing for this baby
Fortified expressed breastmilk	FORTIFIED_BREASTMILK	Numeric value (average in ml/kg/day during intervention period) 777 = not collected in trial 999 = missing for this baby
Fortifier name	FORTIFIER_NAME	Character (30)
Pre-term formula name	PRET_FORMULA_NAME	Character (30)
Pre-term formula amount	PRET_FORMULA	Numeric value (average in ml/kg/day during intervention period) 777 = not collected in trial 999 = missing for this baby
Term formula name	TERM_FORMULA_NAME	Character (30)
Term formula amount	TERM_FORMULA	Numeric value (average in ml/kg/day during intervention period) 777 = not collected in trial 999 = missing for this baby
Other formula name	OTH_FORMULA_NAME	Character (30)
Other formula amount	OTH_FORMULA	Numeric value (average in ml/kg/day during intervention period) 777 = not collected in trial 999 = missing for this baby
Post-discharge formula name	POST_FORMULA_NAME	Character (30)
Post-discharge formula amount	POST_FORMULA	Numeric value (average in ml/kg/day during intervention period) 777 = not collected in trial 999 = missing for this baby
Nutrition supplement name	NUTRITION_SUPP_NAME	Character (30)
Nutrition supplement amount	NUTRITION_SUPP	Numeric value 777 = not collected in trial 999 = missing for this baby
Unit of nutrition supplement	NUTRITION_SUPP_UNIT	Character

IV Fluid 1 name	IV1_NAME	Character (30)
IV Fluid 1 amount	IV1	Numeric value (average in ml/day during intervention period) 777 = not collected in trial 999 = missing for this baby
IV Fluid 2 name	IV2_NAME	Character (30)
IV Fluid 2 amount	IV2	Numeric value (average in ml/day during intervention period) 777 = not collected in trial 999 = missing for this baby
IV Fluid 3 name	IV3_NAME	Character (30)
IV Fluid 3 amount	IV3	Numeric value (average in ml/day during intervention period) 777 = not collected in trial 999 = missing for this baby

(2) Spreadsheet/ file two (Infant characteristics at discharge or at 36 weeks postmenstrual age or at term equivalent age)

Variable	Variable name in data file	Suggested coding
When this assessment was conducted (at discharge or at 36 weeks postmenstrual age or at term equivalent age)	ASS_AT	1= At discharge 2= At 36 weeks 3= At term equivalent age 4= Other
If other, please specify when this assessment was conducted	ASS_AT_SP	Character
Date at assessment	ASS_DATE	Date in dd/mm/yyyy format
Age at assessment	ASS_AGE	Numeric value (in days)
Weight	ASS_WT	Numeric value (in g) 777 = not collected in trial 999 = missing for this baby
Weight gain	ASS_WT_GAIN	Numeric value (in g/day/kg) 777 = not collected in trial 999 = missing for this baby
How weight gain was calculated	CAL_WT_GAIN	Character
Length at at assessment	ASS_LG	Numeric value (in cm) 777 = not collected in trial 999 = missing for this baby
Length gain	ASS_LG_GAIN	Numeric value (in cm/week) 777 = not collected in trial 999 = missing for this baby
How length gain was calculated	CAL_LG_GAIN	Character
Head circumference at assessment	ASS_HC	Numeric value (in cm) 777 = not collected in trial 999 = missing for this baby
Head circumference gain	ASS_HC_GAIN	Numeric value (in cm/week) 777 = not collected in trial 999 = missing for this baby
How head circumference gain was calculated	CAL_HC_GAIN	Character
Body composition Measurement at assessment	ASS_MASS_MEASURE	1= DEXA 2= BIA 3= ADP-BodPod 4= ADP-PedPod 5= Multicomponent model 6= Other 7=not collected in trial 9=missing for this baby
Fat mass at assessment	ASS_FAT_MASS	Numeric value (in g) 777 = not collected in trial 999 = missing for this baby
Fat free mass at assessment	ASS_FREE_MASS	Numeric value (in g) 777 = not collected in trial 999 = missing for this baby
Lean mass at assessment	ASS_LEAN_MASS	Numeric value (in g) 777 = not collected in trial 999 = missing for this baby
Triceps skinfold at assessment	ASS_TRICESF	Numeric value (in mm) 777 = not collected in trial 999 = missing for this baby

Variable	Variable name in data file	Suggested coding
Biceps skinfold at assessment	ASS_BICEPSF	Numeric value (in mm) 777 = not collected in trial 999 = missing for this baby
Subscapular skinfold at assessment	ASS_SUBSCAPSF	Numeric value (in mm) 777 = not collected in trial 999 = missing for this baby
Suprailiac skinfold at assessment	ASS_SUPILIACSF	Numeric value (in mm) 777 = not collected in trial 999 = missing for this baby

(3) Spreadsheet/ file three (Infant and child characteristics after discharge)
Please fill in one for each age assessed

Variable	Variable name in data file	Suggested coding
Date at follow-up	FOLLOW_DATE	Date in dd/mm/yyyy format
Age at follow-up (corrected age)	FOLLOW_AGE	Numeric value (in months)
Growth		
Weight	GTH_WT	Numeric value (in g) 777 = not collected in trial 999 = missing for this child
Weight gain	WT_GAIN	Numeric value (in g/day/kg) 777 = not collected in trial 999 = missing for this child
How weight gain was calculated	CAL_WT_GAIN	Character
Length	GTH_LG	Numeric value (in cm) 777 = not collected in trial 999 = missing for this child
Length gain	LG_GAIN	Numeric value (in cm/week) 777 = not collected in trial 999 = missing for this child
How length gain was calculated	CAL_LG_GAIN	Character
Head circumference	GTH_HC	Numeric value (in cm) 777 = not collected in trial 999 = missing for this child
Head circumference gain	HC_GAIN	Numeric value (in cm/week) 777 = not collected in trial 999 = missing for this child
How head circumference gain was calculated	CAL_HC_GAIN	Character
BMI	GTH_BMI	Numeric value (in kg/m^2) 777 = not collected in trial 999 = missing for this child
Ponderal Index	PONDERAL	Numeric value (in kg/m^3) 777 = not collected in trial 999 = missing for this child
Body composition		
Body composition Measurement	BODY_MASS_MEASURE	1= DEXA 2= BIA 3= ADP-BodPod 4= ADP-PedPod 5= Multicomponent model 6= Other 7=not collected in trial 9=missing for this child
Fat mass	FAT_MASS	Numeric value (in g) 777 = not collected in trial 999 = missing for this child
Fat free mass	FAT_FREE_MASS	Numeric value (in g) 777 = not collected in trial 999 = missing for this child
Lean mass	LEAN_MASS	Numeric value (in g) 777 = not collected in trial 999 = missing for this child
Triceps skinfold	TRICESF	Numeric value (in mm) 777 = not collected in trial 999 = missing for this child
Biceps skinfold	BICEPSF	Numeric value (in mm)

Variable	Variable name in data file	Suggested coding
		777 = not collected in trial 999 = missing for this child
Subscapular skinfold	SUBSCAPSF	Numeric value (in mm) 777 = not collected in trial 999 = missing for this child
Suprailiac skinfold	SUPILIACSF	Numeric value (in mm) 777 = not collected in trial 999 = missing for this child
Neurodevelopmental outcomes		
Any development impairment	DEVELOPIMPAIR	1=Not present 2=Mild 3=Moderate 4=Severe 6=Present but no severity data 7=not collected in trial 9=missing for this child
Definition of development impairment	DEF_DEVELOPIMPAIR	Character
Cerebral palsy	CP	1=Not present 2=Mild 3=Moderate 4=Severe 6=Present but no severity data 7=not collected in trial 9=missing for this child
Cognitive impairment	COGNIMPAIR	1=None 2=Mild 3=Moderate 4=Severe 6=Present but no severity data 7=not collected in trial 9=missing for this child
Definition of Cognitive impairment	DEF_COGN	Character
Developmental delay	DEVELOPDELAY	1=None 2=Mild 3=Moderate 4=Severe 6=Present but no severity data 7=not collected in trial 9=missing for this child
Definition of Developmental delay	DEF_DEVELOPDELAY	Character
Bayley II score- mental development index	BII_MENTAL	Numeric value 777 = not collected in trial 999 = missing for this child
Bayley II score- motor scale	BII_MOTOR	Numeric value 777 = not collected in trial 999 = missing for this child
Bayley III score-cognitive	BIII_COGNITIVE	Numeric value 777 = not collected in trial 999 = missing for this child
Bayley III score- language	BIII_LANGUAGE	Numeric value 777 = not collected in trial 999 = missing for this child
Bayley III score- motor	BIII_MOTOR	Numeric value 777 = not collected in trial 999 = missing for this child
Wechsler Intelligence Scale for Children(WISC) IQ	WISC	Numeric value 777 = not collected in trial 999 = missing for this child

Variable	Variable name in data file	Suggested coding
Other measurement 1 name	OTH_MEASURE_NAME	Character(30)
Other measurement 1 result	OTH_MEASURE	Character
NEUROSENSORY		
Visual impairment	VISUAL	1=None, presenting visual acuity 6/18 or better in the better eye 2=Mild, can see a toy and able to follow a toy. Presenting visual acuity 6/18 to 6/60 in the better eye 3=Severe, able to see light or gross movement up close (within 40cm), presenting visual acuity worse than 6/60, equal to or better than 1/60 in the better eye 4= Blindness, no useful vision. Presenting visual acuity worse than 1/60 in the better eye or no light perception 5=Legal blindness, medically diagnosed central visual acuity of 20/200 (6/60) or less in the better eye with the best possible correction, and/or a visual field of 20 degrees or less 7= not collected in trial 9= missing for this child
How visual impairment assessed	VISUAL_MEASURE	Character
Hearing impairment	HEARING	1= None diagnosed 2= Mild, hearing level in decibels: 26-40dB A child with this level of hearing loss will have trouble hearing and understanding soft speech, speech from a distance or speech against a background of noise 3= Moderate, hearing level in decibels: 41-60db A child with this level of hearing loss will have difficulty hearing regular speech, even at close distance 4= Severe, hearing level in decibels: 61-80dB A child with this level of hearing loss may only hear very loud speech or loud sounds in the environment, such as a fire truck siren or a door slamming. Most conversational speech is not heard. 5= Profound, hearing level in decibels: over 81dB A child with this level of hearing loss may perceive loud sounds as vibrations. 7= not collected in trial 9= missing for this child
How hearing impairment was assessed	HEARING_MEASURE	Character
Cardiovascular risk outcomes		
Mean arterial pressure	MAP	Numeric value (in mmHg) 777 = not collected in trial 999 = missing for this child
Systolic blood pressure	SBP	Numeric value (in mmHg) 777 = not collected in trial 999 = missing for this child
Diastolic blood pressure	DBP	Numeric value (in mmHg) 777 = not collected in trial 999 = missing for this child
How blood pressure was measured	BP_MEASURE	Character(30)
Metabolic outcomes		
Type 2 diabetes	DIABETES	1=No 2=Yes 7=not collected in trial 9=missing for this child
Triglycerides	TRIGLYCERIDES	Numeric value (in mg/dL) 777 = not collected in trial

Variable	Variable name in data file	Suggested coding
		999 = missing for this child
HDL	HDL	Numeric value (in mg/dL) 777 = not collected in trial 999 = missing for this child
LHL	LHL	Numeric value (in mg/dL) 777 = not collected in trial 999 = missing for this child
HDL:LDL	HDL_LDL	Numeric value 777 = not collected in trial 999 = missing for this child
Fasting blood glucose concentration	BLOOD_GLUCOSE	Numeric value (in mmol/L) 777 = not collected in trial 999 = missing for this child
Blood glucose concentration at 2 hours after 75-gram oral glucose tolerance test (OGTT)	OGTT	Numeric value (in mmol/L) 777 = not collected in trial 999 = missing for this child
Other measurement of glucose tolerance	OTH_GLUCOSE_MEASURE	Character
Blood glucose concentration for other glucose tolerance measurement	OTH_GLUCOSE	Numeric value (in mmol/L) 777 = not collected in trial 999 = missing for this child
Glucose intolerance	GLUCOSE_TOLERANCE	1=No 2=Yes 7=not collected in trial 9=missing for this child
Definition of glucose intolerance	DEF_GLUCOSE_TOLERANCE	Character(30)
Fasting insulin concentration	FASTING_INSULIN	Numeric value (in U/ml) 777 = not collected in trial 999 = missing for this child
Insulin sensitivity	INSULIN_SENS	Numeric value (in mmol/L per unit of insulin) 777 = not collected in trial 999 = missing for this child
How insulin sensitivity measured	INSULIN_SENS_MEASURE	Character(30)
HOMA-IR	HOMA	Numeric value 777 = not collected in trial 999 = missing for this child
Fasting Leptin	LEPTIN	Numeric value (in ng/ml) 777 = not collected in trial 999 = missing for this child
Fasting Adiponectin	ADIPONECTIN	Numeric value (in ug/ml) 777 = not collected in trial 999 = missing for this child
Bone development		
Number of fractures	FRACTURES	Numeric value 777 = not collected in trial 999 = missing for this child
Interval over which fractures were recorded	INTERVAL	Character
Bone mineral content	BMC	Numeric value (in g) 777 = not collected in trial 999 = missing for this child
Volumetric bone mineral density	BMD	Numeric value (in g/cm2) 777 = not collected in trial 999 = missing for this child
Allergies		
Eczema	ECZEMA	1= No

Variable	Variable name in data file	Suggested coding
		2= Yes 7= not collected in trial 9= missing for this child
Definition of Eczema	DEF_ECZEMA	Character
Asthma	ASTHMA	1= No 2= Yes 7= not collected in trial 9= missing for this child
Definition of Asthma	DEF_ASTHMA	Character
Hayfever	HAYFEVER	1= No 2= Yes 7 = not collected in trial 9 = missing for this child
Definition of Hayfever	DEF_HAYFEVER	Character
Death		
Death	DEATH	1= No 2= Yes 7= not collected in trial 9= missing for this child
Age at death	DEATH_AGE	Numeric value (in months postmenstrual age) 777 = not collected in trial 999 = missing for this child
Date of death	DEATH_DATE	Date in dd/mm/yyyy format
Nutrition		
Feeding intolerance	FEEDING_INTOLERANCE	1= No 2= Yes 7= not collected in trial 9= missing for this child
Total protein intake	TOT_PROTEIN	Numeric value (in g/kg.d) 777 = not collected in trial 999 = missing for this child
Total energy intake	TOT_ENERGY	Numeric value (in g/kg.d) 777 = not collected in trial 999 = missing for this child
Total carbohydrate intake	TOT_CARB	Numeric value (in g/kg.d) 777 = not collected in trial 999 = missing for this child
Total fat intake	TOT_FAT	Numeric value (in g/kg.d) 777 = not collected in trial 999 = missing for this child