STUDY PROCEDURES

The study procedures for the entire cohort, approved to date, are shown in Table 1.

	FIELDW ORK PROCEDURE	BIOLOGICAL SAMPLES
0-28 wks gestation	Recruitment & enrolment period	NIL
28-38 wks gestation	Interview/Question naire, EDS & PSS	Maternal faeces
		Maternal urine
		As close as possible to 36th week - ask
		mothers to freeze faeces as close to this
		date - if do not have time to drop off earlier
Birth	NIL	Cord blood
		Cord tissue sample
		Placenta sample
		Meconium
		 Infant nasal swab
Prior to discharge	Interview/questionnaire, clinical examination, infant growth	NIL
ollowing delivery (0-5	measurements.	
davs of life)	Up to 5 days of life, past this point considered "missed"	
Eligible babies born >37	10/24 S4 IUGR sub study ONLY:	NIL
wks gestation with birth weight of <2.5kgs 2 weeks	Recruitment & enrolment, clinical examination including infant growth	
	measurements.	
	Up to 5 days of life, past this point considered "missed"	
	Telephone conversation with BIS paediatrician regarding Monthly	NIL
Weeks	Infant Health Diaries	
4 weeks		Matana I kata
WEERS	1 st clinic visit to CHRU (full term infants)	Maternal hair
	Interview/questionnaire EDP & PSS	Infant hair
	Infant growth measurements	Infant faeces
	Anthropometric measurement of biological parents (weight, height	Infant urine
	& head circumference)	Breast milk
	Eczema assessment	 Infant nasal swab
	optional extras	As close to 4 weeks of age- ask mothers to
	MBW	freeze faeces as close to this date if they
	As close to 4 weeks of age – acceptable up to 12 weeks of age but	have no time to drop off earlier
	must be 3 weeks after having an URTI/LRTI or other respiratory illness	
	Abdominal ultrasound	
weeks (IUGR sub study	10/24 S4 IUGR sub study ONLY:	NIL
a weeks (lock sub study participants)	Interview/guestionnaire EDP & PSS	· ··-
	•	
	Infant growth measurements Abdominal Ultracound (actional) as close to 4 washes of age	
	 Abdominal Ultrasound (optional) as close to 4 weeks of age – 	
	acceptable up to 6	
3 months	Telephone interview/questionnaire (full term infants)	NIL (full term infants)
	*1st clinic visit to CHRU offered to families of preterm infants (only	
	infants born between 31wks-7days and 36wks-6days gestation) at	 Infant faeces (only infants born
	approx. 3 months of age	between 31wks-7days and 36wks-
		6days gestation)
6 months	2 nd clinic visit to CHRU (all infants)	Infant blood
	Infant growth measurements	 Infant faeces
	Eczema assessment	As close to 6 mths of age – ask mothers to
		freeze faeces as close to this date if do not
		have time to drop off
		•
		Breast milk
		 Infant nasal swab
		 Infant saliva swab
		Infant saliva swabMother/primary carer saliva swab
9 months	Telephone interview/questionnaire	
9 months	Telephone interview/questionnaire	
) months	Telephone interview/questionnaire Home visit (10/24 S3)	
9 months	Home visit (10/24 S3)	Mother/primary carer saliva swab
9 months	Home visit (10/24 S3) Home environment questionnaire 	Mother/primary carer saliva swab Home visit (10/24 S3)
9 months	Home visit (10/24 S3) • Home environment questionnaire • Developmental assessment	 Mother/primary carer saliva swab Home visit (10/24 S3) Urine
9 months	Home visit (10/24 S3) Home environment questionnaire 	Mother/primary carer saliva swab Home visit (10/24 S3) Urine Dust
	Home visit (10/24 S3) Home environment questionnaire Developmental assessment Environmental sample collection	 Mother/primary carer saliva swab Home visit (10/24 S3) Urine Dust Hair
9 months 12 months	Home visit (10/24 S3) Home environment questionnaire Developmental assessment Environmental sample collection 3 rd clinic visit to CHRU (all infants)	Mother/primary carer saliva swab Home visit (10/24 S3) Urine Dust Hair Infant blood
	Home visit (10/24 S3) Home environment questionnaire Developmental assessment Environmental sample collection 3 rd clinic visit to CHRU (all infants) Interview/questionnaire & PSS 	Mother/primary carer saliva swab Home visit (10/24 S3) Urine Dust Hair Infant blood Infant urine
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Food frequency questionnaire EDS & PSS ٠

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 - Home environment questionnaire Physical activity data collection form
- •

Cardiovascular components: .

- Abdominal & carotid ultrasound Measure blood pressure •
- . Pulse wave velocity
- Multiple breath washout •
 - Forced oscillation test
- Neurodevelopmental components:

 Executive function

 Picture vocabulary test
- Picture vocabulary test

Clinical examination & other measures: •

- Eczema assessment (SCORAD) Skin prick test
- •
- Skin prick test Physical activity measured via use of accelerometer worn by child during waking hours (7 day period) Infant anthropometrics: Height (standing and sitting) Weight, body fat %, TBW Waist, thigh, head and upper arm circumference Skinfolds (triceps & subscapular) Parente anthropometrics: •

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- Parents anthropometrics: Current weight, body fat %, waist circumference (mother/father)

Child blood (optional)

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6th clinic visit to CHRU

Interview/questionnaires:

Primary school questionnaire Food Frequency questionnaire

- 24 hour food recall
- Edinburgh Depression Scale & Perceived Stress Scale
- Home Environment Questionnaire •
- Academic Rating Scale (teacher completed) ADHD Rating Scale 5 •
- Social Communication Questionnaire Spence Children's Anxiety Scale •

Neurodevelopment components:

WASI-II •

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- NIH Toolbox
 - PVT Child 0 0
 - Processing Speed DCCS 0
- Flanker 0
- Working Memory o Digits/Blocks
- Beery VMI
- CASL-2 WISC-V (COVID Change)

Cardiovascular components:

Abdominal & carotid ultrasound

- Measure blood pressure Pulse wave velocity
- ٠ Cardiac vagal tone •
 - Retinal Microvascular imaging

Dental Components

- Dental clinical examination Intra-oral 3D image scanner
- •

Respiratory components:

- Multiple breath washout
- Forced oscillation test Spirometry
- Post-Bronchodilator Response •

Physical Activity Components:

- Physical activity measured via use of accelerometer worn by child during waking hours (7 day period) Physical assessment- muscle function and aerobic capacity
 - - 0 0 Jump test Grip Strength
 - 0 Cardiovascular test

Clinical examination & other measures: Infant anthropometrics:

- Height (standing and sitting) Weight and body composition analysis
- Waist, thigh, head and upper arm circumference
- Skinfolds (triceps & subscapular) Eczema assessment (SCORAD)
- Skin prick test Heel Ultrasound
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Parental measures (mother/father)

- Parents anthropometrics: o Current weight,
 - 0
 - Body composition analysis Waist circumference 0
- Maternal Spirometry Maternal cIMT, blood pressure/PWA ٠
 - Maternal heel ultrasound
- Maternal physical assessment- muscle function and aerobic
- capacity
 - Jump test 0
 - Grip Strength Cardiovascular test 0

- Child urine Child faeces •
- Child nasal swab
- Child buccal swab •
- Child saliva sample
- Child dental plaque swab Child blood (optional) •
- Child deciduous teeth .

Maternal blood Maternal stool

Maternal urine