

CHAIN / BREAST MILK Composition SUB-STUDY (BMC study)

BMC SITE NAME:		Time now::	
ENROLMENT – COMMUNITY PARTICIPANT			
Eligibility checklist			
Infant enrolled in CHAIN	□ yes	□ no	
Infant aged between 7 days and below 6 months at	□ yes	□ no	
CHAIN enrolment			
Mother currently breastfeeding	□ yes	□ no	
Mother breastfed the infants in the past 5 days	□ yes □ no		
Consent to BMC sub-study	□ yes □ no		
All of the above must be YES to be eligible for BMC sub-stu	ıdy		
Name of FW			
Date of Consent	/_//		
Time of Consent	:(hh:mm)	
Special Circumstances			
Mother is currently taking any nutrition supplements	□ yes	□ no	
If yes, write names of the supplements the mother is	☐ Unknown		
taking:	1. 2.		
(Ask to see the supplement packaging and write the name of supplement)	3. 4.		
Traine of supplements			
Time since mother took the last supplement?	□ <1 hr □ 1-3 hrs □ 3-6 hrs		
	□ >6 hrs □ Unknov	vn	
Mother is currently taking any medicine	□ yes	□ no	
Where did mother get medication from?	☐ Unknown		
	☐ Hospital/clinic ☐ H	<u>.</u>	
	☐ Pharmacy ☐ He		
If you have a second the second that we have a second to the second that we have a second to the sec	-	eighbour/friend	
If yes, list names of the medicine the mother is taking: (Ask to see medicine and write the names of the	☐ Unknown 1. 2.		
medicine)	3.		
	4.		
Mother is currently breastfeeding more than one child	□ yes	□ no	
(o a twins)	1	I	



Mothers Characteristic (currently co	llected in main CHAIN CRF)
Age	□ <18 years □ >18 years
Education	☐ None ☐ Some Primary ☐ Completed Primary
	☐ Some Secondary ☐ Completed Secondary ☐ Above Secondary
HIV status in last 6 months	☐ Known + ☐ Tested + ☐ Tested - ☐ Not Tested ☐ Known –
If positive is mother on ART? (If yes, ensure the names of the ART medications are listed under medications above)	□ yes □ no
If positive is mother on cotrimoxazole or Septrin?	□ yes □ no
Mother's Anthropometry	MUAC: cm Height: cm
	Weight: kg
Participants birth order	of live births
Age at first pregnancy	years
Marital status	 ☐ Married monogamous ☐ Stable relationship ☐ Unstable/complicated/separated relationship ☐ Divorced ☐ Widowed
Mother has any long-term (chronic) known illness?	□ yes □ no
	If yes, which disease?
	☐ Diabetes ☐ Alzheimer's disease
	☐ High blood pressure ☐ Arthritis
	☐ Cancer ☐ Obesity
	☐ Other (specify)
Has mother taken any of the	Alcohol DIV drugs DVbst DCssrahis DT-b
Has mother taken any of the following in last 7 days?	☐ Alcohol ☐ IV drugs ☐ Khat ☐ Cannabis ☐ Tobacco☐ None ☐ Other (specify)
,	
Infant characteristics (currently colle	ected in main CHAIN CRF)



Date of sub-study enrolment	//				
Date of birth	//				
Is the date of birth	☐ true/recorded ☐ estimated				
Sex	□ male □ female				
Birth details	☐ premature ☐ born small <2.5kg ☐ twin/multiple birth ☐ born term ☐ unknown				
Gestational age	☐ known/recorded weeks ☐ estimated, reported weeks ☐ unknown				
Birth weight	□ known/recordedKg □ estimated, reportedKg □ unknown				
Birth length	□ known/recorded, cm □ estimated, reported cm □ unknown				
Mode of delivery	 □ unassisted vaginal delivery (normal) □ assisted vaginal delivery (forceps) □ c-section 				
Infant feeding					
Breastfeeding frequency in the past 24 hrs?	□ <4 times □ 4-8 times □ >8 times				
Does mother avoid feeding the baby from one breast?	□ yes □ no				
If YES, why?	☐ Pain ☐ Other forms of discomfort ☐ Baby preference ☐ Other (specify)				
List other liquids sometimes consumed by infant?	□ Nothing □ Water □ Sweetened water □ Juice □ Soda/fizzy drinks □ Tea/cocoa □ Formula milk □ Soups □ Gripe water □ Herbal medicine □ Special milk/DF100 □ Honey □ Cow's milk □ Others				



If YES to liquids, at what age did infant FIRST consume any liquids other than breast milk?	☐ Birth—day 5 ☐ Day 5 – 2 weeks ☐ >2 weeks to 1 month ☐ 1 month — 3 months ☐ >3 months			
List other semi-solid foods consumed by infant?	□ Porridge □ Fruit purees □ Vegetable purees □ Others (list below)			
If YES to semi-solid foods, at what age did infant FIRST consume any semi-solids other than breast milk?	☐ Birth—day 5 ☐ Day 5 — 2 weeks ☐ >2 weeks to 1 month ☐ 1 month — 3 months ☐ >3 months			
Early initiation of breastfeeding				
What did the child receive other than breastmilk in the first 3 days of life?	□ sweetened water □ formula/powdered milk □ animal milk □ fruit juice □ tea □ water □ pure honey □ glycerine □ nothing □ porridge/pulp □ others			
Feeding of colostrum at birth	☐ yes ☐ no ☐ unknown			
How early was colostrum/breastfeeding initiated	☐ Within 1 hour of birth ☐ Between 1-12 hours ☐ >12 hours			
Colostrum difficult to obtain	□ yes □ no			
	T.			
Who helped mother initiate breastfeeding?	 □ Nurse/midwife □ Organised lactation support group □ Infant's grandmother □ Sister □ Other family member □ No one 			
How many children has she breastfed before this infant	□ None/first child □ 1 □ 2 □ 3 □ More than 3			
Is mother currently pregnant	☐ yes, confirmed ☐ no ☐ suspected pregnancy ☐ unknown			
Breast assessment (as observed at the time of assessment)				



Does the right breast look healthy?	☐ yes ☐ no IF no, Nipples are cracked ☐ slight ☐ severe with bleeding		
Does the left breast look healthy?	☐ yes ☐ no IF no, Nipples are cracked ☐ slight ☐ severe with bleeding		
Size and shape of nipples	Right nipple inverted flat round (normal) Left nipple inverted flat flat flat flat flat flat flat flat pointed on one end round (normal)		
Size and shape of breast	Right breast □ large □ engorged and painful □ full / rounded (normal) □ flat / deflated □ small Left breast □ large □ engorged and painful □ full / rounded (normal) □ flat / deflated □ small		
Dripping milk	□ yes □ no		
Signs of inflammation or infection (tick all that apply)	☐ redness ☐ swollen ☐ None ☐ painful ☐ fever/feeling ill ☐ warm to the touch ☐ thickening of breast tissue		
Pain, burning or discomfort during breastfeeding	□ yes □ no		

Breast oozes with milk mixed with pus or blood \square yes \square no



		It yes,	which breast □ right □ left	⊔ both		
Mother noticed anything wrong with breast?			□ yes □ no			
Mother thinks breast milk is sufficient for her baby?			If yes, comment: ☐ yes ☐ no			
Bottle feeding?		□ yes	s □ no			
		If yes, what is fed in a bottle? (tick all that apply) □ breast milk at room temperature □ warmed breast milk □ animal milk □ Formula milk □ Other liquids e.g. Juices, etc.				
Does the mother currently use hand expression?		,	☐ yes ☐ no ☐ rarely ☐ on occasion ☐ often			
			IF yes, why: ☐ relieve engorgement ☐ collect milk to feed the infant at a later time ☐ aid in stimulation/production of milk			
Breastfeeding assessment to be completed for all mothers and used to support feeding technique for all mothers at the end of the sample collection.				hnique for all		
Breastfeeding assessment (Observed)						
Positioning			Attachment			
Baby's head and body in line	□ yes	□ no	More areola seen above baby's top lip	□ yes □ no		
Baby held close to mother's body	□ yes	□no	Baby's mouth open wide	□ yes □ no		
Baby's whole body supported	□ yes	□no	Lower lip turned outward	□ yes □ no		
Baby approaches breast nose to nipple	□ yes	□ no	Baby's chin touches breast	□ yes □ no		
Suckling			Mother			
Slow deep sucks with pauses	□ yes	□no	Mother looks healthy	□yes□no		
Cheeks round when suckling	□ yes	□no	Mother relaxed and comfortable	□ yes □ no		
Baby releases breast when finished	□ yes	□no	Bonding with baby	□ yes □ no		
Mother notices signs of oxytocin reflex (milk dripping by itself)	□ yes	□ no				
Mothers Diet						



Is mother currently on nutrition programme	□ Yes □ No	
Mothers dietary habits	☐ Mixed diet☐ Strictly vegetarian	☐ Vegetarian but with milk☐ Others
What time did mother take breakfast this morning? (indicate approximate time)	: (hh:mm)	□ None
List all foods and liquids consumed as part of breakfast (include liquids)	□ None 1. 2. 3. 4. 5.	
What time did you eat dinner last night? (estimated time)	: (hh:mm)	□ None
List all foods and liquids consumed as part of dinner (include liquids)	□ None 1. 2. 3. 4. 5.	
List all foods and liquids consumed as snacks between dinner and breakfast (during the night)	□ None 1. 2. 3. 4.	



In the past 7 days, did the mother consume least 1 tablespoon of the following food?	at			
If yes, how many times?		□ Yes	□ No	Number of times
Puls	ses	□ Yes	□ No	
Nuts and see	eds	☐ Yes	□ No	
Da	airy	☐ Yes	□ No	
Meat, poultry and f	fish	☐ Yes	□ No	
E	ggs	☐ Yes	□ No	
Dark green leafy vegetab	oles	☐ Yes	□ No	
Yellow fruits and vegetab	oles	□ Yes	□ No	
Other fruits and vegetab	oles			
Breastmilk collection				
Breastmilk collection attempted		yes 🗆	no	
Date of collection	D	/_// D D / M M / Y Y Y Y		-
Time of collection (start)	_	_:	_ (hh:mm)	
Time of collection (end)	: (hh:mm)		_ (hh:mm)	
More than 20ml was collected using only the first breast?	□ yes □ no			
Amount of milk sample collected from first breast?		mL		
Which breast was used		right l	□ left	



If second breast was used, total milk volume obtained after full hand expression of 2 nd breast	m	L □ Not	t applicable		
Unable to collect 20ml breastmilk sample	☐ insufficient milk in the breast				
why?	☐ difficulty in expressing				
	□ other (specify)				
How to best describe the milk collection	☐ Milk flow was fast and easy				
process	☐ Milk flow was slow and difficult				
Was mother experienced in hand	☐ Experienced ☐ Not experienced				
expression					
CRF Completed by (Initials) – to be signed when complete.			Date	Time	
Do not sign if any fields are empty			///	:	