

CHAIN Number

[][0][0][0][][][][]

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

BMC SITE NAME: _____

Time now: ____: ____

ENROLMENT

| Eligibility checklist | | |
|---|--|-----------------------------|
| Infant enrolled in CHAIN | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Infant aged between 7 days and below 6 months at CHAIN enrolment | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Mother currently breastfeeding | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Mother breastfed the infants in the past 5 days | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Consent to BMC sub-study | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| All of the above must be YES to be eligible for BMC sub-study | | |
| Name of FW | | |
| Date of Consent | ____ / ____ / ____ - ____ <i>D D / M M / Y Y Y Y</i> | |
| Time of Consent | ____ : ____ (hh:mm) | |
| Special Circumstances | | |
| Mother is currently taking any nutrition supplements | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| If yes, write names of the supplements the mother is taking: <i>(Ask to see the supplement packaging and write the name of supplement)</i> | <input type="checkbox"/> Unknown 1. 2. 3. 4. | |
| Time since mother took the last supplement? | <input type="checkbox"/> <1 hr <input type="checkbox"/> 1-3 hrs <input type="checkbox"/> 3-6 hrs <input type="checkbox"/> >6 hrs <input type="checkbox"/> Unknown | |
| Mother is currently taking any medicine | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Where did mother get medication from? | <input type="checkbox"/> Unknown <input type="checkbox"/> Hospital/clinic <input type="checkbox"/> Herbal/traditional <input type="checkbox"/> Pharmacy <input type="checkbox"/> Healer <input type="checkbox"/> Shop <input type="checkbox"/> Neighbour/friend | |
| If yes, list names of the medicine the mother is taking: <i>(Ask to see medicine and write the names of the medicine)</i> | <input type="checkbox"/> Unknown 1. 2. 3. 4. | |
| Mother is currently breastfeeding more than one child (e.g. twins) | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Mothers Characteristic (currently collected in main CHAIN CRF) | | |
| Age | <input type="checkbox"/> <18 years <input type="checkbox"/> >18 years | |
| Education | <input type="checkbox"/> None <input type="checkbox"/> Some Primary <input type="checkbox"/> Completed Primary <input type="checkbox"/> Some Secondary <input type="checkbox"/> Completed Secondary <input type="checkbox"/> Above Secondary | |

CHAIN Number

[][0][0][0][][][][]

| | |
|--|--|
| HIV status in last 6 months | <input type="checkbox"/> Known + <input type="checkbox"/> Tested + <input type="checkbox"/> Tested - <input type="checkbox"/> Not Tested <input type="checkbox"/> Known - |
| If positive is mother on ART? <i>(If yes, ensure the names of the ART medications are listed under medications above)</i> | <input type="checkbox"/> yes <input type="checkbox"/> no |
| If positive is mother on cotrimoxazole or Septrin? | <input type="checkbox"/> yes <input type="checkbox"/> no |
| Mother's Anthropometry | MUAC: ____ . ____ cm Height: ____ . ____ cm Weight: ____ . ____ kg |
| Participants birth order | ____ of ____ live births |
| Age at first pregnancy | ____ years <input type="checkbox"/> unknown |
| Marital status | <input type="checkbox"/> Married monogamous <input type="checkbox"/> Married polygamous <input type="checkbox"/> Stable relationship <input type="checkbox"/> Single <input type="checkbox"/> Unstable/complicated/separated relationship <input type="checkbox"/> Divorced <input type="checkbox"/> Widowed |
| Mother has any long-term (chronic) known illness? | <input type="checkbox"/> yes <input type="checkbox"/> no If yes, which disease? <input type="checkbox"/> Diabetes <input type="checkbox"/> Alzheimer's disease <input type="checkbox"/> High blood pressure <input type="checkbox"/> Arthritis <input type="checkbox"/> Cancer <input type="checkbox"/> Obesity <input type="checkbox"/> Other (specify) _____ |
| Has mother taken any of the following in last 7 days? | <input type="checkbox"/> Alcohol <input type="checkbox"/> IV drugs <input type="checkbox"/> Khat <input type="checkbox"/> Cannabis <input type="checkbox"/> Tobacco <input type="checkbox"/> None <input type="checkbox"/> Other (specify) _____ |
| Infant characteristics (currently collected in main CHAIN CRF) | |
| Date of arrived at hospital | ____ / ____ / ____ <i>D D / M M / Y Y Y Y</i> |
| Date of sub-study enrolment | ____ / ____ / ____ <i>D D / M M / Y Y Y Y</i> |
| Date of birth | ____ / ____ / ____ <i>D D / M M / Y Y Y Y</i> |
| Is the date of birth | <input type="checkbox"/> true/recorded <input type="checkbox"/> estimated |
| Sex | <input type="checkbox"/> male <input type="checkbox"/> female |
| Birth details | <input type="checkbox"/> premature <input type="checkbox"/> born small <2.5kg <input type="checkbox"/> twin/multiple birth <input type="checkbox"/> born term <input type="checkbox"/> unknown |
| Gestational age | <input type="checkbox"/> known/recorded ____ weeks <input type="checkbox"/> estimated, reported ____ weeks <input type="checkbox"/> unknown |

CHAIN Number

[][0][0][0][][][][]

| | |
|--|---|
| Birth weight | <input type="checkbox"/> known/recorded ___ . ___ Kg <input type="checkbox"/> estimated, reported ___ . ___ Kg <input type="checkbox"/> unknown |
| Birth length | <input type="checkbox"/> known/recorded, ___ . ___ cm <input type="checkbox"/> estimated, reported ___ . ___ cm <input type="checkbox"/> unknown |
| Mode of delivery | <input type="checkbox"/> unassisted vaginal delivery (normal) <input type="checkbox"/> assisted vaginal delivery (forceps) <input type="checkbox"/> c-section |
| Infant feeding | |
| Breastfeeding frequency (24 hrs) before hospitalization | <input type="checkbox"/> <4 times a day <input type="checkbox"/> 4-8 times a day <input type="checkbox"/> >8 times a day |
| Breastfeeding frequency in the past 24 hrs? | <input type="checkbox"/> <4 times <input type="checkbox"/> 4-8 times <input type="checkbox"/> >8 times |
| Does mother avoid feeding the baby from one breast? | <input type="checkbox"/> yes <input type="checkbox"/> no |
| If YES, why? | <input type="checkbox"/> Pain <input type="checkbox"/> Other forms of discomfort <input type="checkbox"/> Baby preference <input type="checkbox"/> Other (specify) _____ |
| List other liquids sometimes consumed by infant before hospitalization? | <input type="checkbox"/> Nothing <input type="checkbox"/> Water <input type="checkbox"/> Sweetened water <input type="checkbox"/> Juice <input type="checkbox"/> Soda/fizzy drinks <input type="checkbox"/> Tea/cocoa <input type="checkbox"/> Formula milk <input type="checkbox"/> Soups <input type="checkbox"/> Gripe water <input type="checkbox"/> Herbal medicine <input type="checkbox"/> Special milk/DF100 <input type="checkbox"/> Honey <input type="checkbox"/> Cow's milk <input type="checkbox"/> Others |
| If YES to liquids, at what age did infant FIRST consume any liquids other than breast milk? | <input type="checkbox"/> Birth–day 5 <input type="checkbox"/> Day 5 – 2 weeks <input type="checkbox"/> >2 weeks to 1 month <input type="checkbox"/> 1 month – 3 months <input type="checkbox"/> >3 months |
| List other semi-solid foods consumed by infant before hospitalization? | <input type="checkbox"/> Porridge <input type="checkbox"/> Fruit purees <input type="checkbox"/> Vegetable purees <input type="checkbox"/> Others (list below) _____ _____ |
| If YES to semi-solid foods, at what age did infant FIRST consume any semi-solids other than breast milk? | <input type="checkbox"/> Birth–day 5 <input type="checkbox"/> Day 5 – 2 weeks <input type="checkbox"/> >2 weeks to 1 month <input type="checkbox"/> 1 month – 3 months <input type="checkbox"/> >3 months |
| When child fell ill, did mother stop breastfeeding? | <input type="checkbox"/> yes <input type="checkbox"/> no |
| If yes, what was given to the child instead? | <input type="checkbox"/> Other liquids (water, animal milk, formula, soups, juices, etc) <input type="checkbox"/> Semi-solids (porridge, fruit puree, etc) |
| How many days has child been ill? | ___ Number of days child has been ill |

CHAIN Number

[][0][0][0][][][][]

| Early initiation of breastfeeding | |
|---|--|
| What did the child receive other than breastmilk in the first 3 days of life? | <input type="checkbox"/> sweetened water <input type="checkbox"/> formula/powdered milk <input type="checkbox"/> animal milk <input type="checkbox"/> fruit juice <input type="checkbox"/> tea <input type="checkbox"/> water <input type="checkbox"/> pure honey <input type="checkbox"/> glycerine <input type="checkbox"/> nothing <input type="checkbox"/> porridge/pulp <input type="checkbox"/> others |
| Feeding of colostrum at birth | <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> unknown |
| How early was colostrum/breastfeeding initiated | <input type="checkbox"/> Within 1 hour of birth <input type="checkbox"/> Between 1-12 hours <input type="checkbox"/> >12 hours |
| Colostrum difficult to obtain | <input type="checkbox"/> yes <input type="checkbox"/> no |
| Who helped mother initiate breastfeeding? | <input type="checkbox"/> Nurse/midwife <input type="checkbox"/> Organised lactation support group <input type="checkbox"/> Infant's grandmother <input type="checkbox"/> Sister <input type="checkbox"/> Other family member <input type="checkbox"/> No one |
| How many children has she breastfed before this infant | <input type="checkbox"/> None/first child <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> More than 3 |
| Is mother currently pregnant | <input type="checkbox"/> yes, confirmed <input type="checkbox"/> no <input type="checkbox"/> suspected pregnancy <input type="checkbox"/> unknown |
| Breast assessment (as observed at the time of assessment) | |
| Does the right breast look healthy? | <input type="checkbox"/> yes <input type="checkbox"/> no IF no, Nipples are cracked <input type="checkbox"/> slight <input type="checkbox"/> severe with bleeding |
| Does the left breast look healthy? | <input type="checkbox"/> yes <input type="checkbox"/> no IF no, Nipples are cracked <input type="checkbox"/> slight <input type="checkbox"/> severe with bleeding |
| Size and shape of nipples | Right nipple <input type="checkbox"/> inverted <input type="checkbox"/> flat <input type="checkbox"/> pointed on one end <input type="checkbox"/> round (normal) Left nipple <input type="checkbox"/> inverted <input type="checkbox"/> flat <input type="checkbox"/> pointed on one end <input type="checkbox"/> round (normal) |

CHAIN Number

[][0][0][0][][][][]

| | |
|--|---|
| Size and shape of breast | Right breast <input type="checkbox"/> large <input type="checkbox"/> engorged and painful <input type="checkbox"/> full / rounded (normal) <input type="checkbox"/> flat / deflated <input type="checkbox"/> small Left breast <input type="checkbox"/> large <input type="checkbox"/> engorged and painful <input type="checkbox"/> full / rounded (normal) <input type="checkbox"/> flat / deflated <input type="checkbox"/> small |
| Dripping milk | <input type="checkbox"/> yes <input type="checkbox"/> no |
| Signs of inflammation or infection <i>(tick all that apply)</i> | <input type="checkbox"/> redness <input type="checkbox"/> swollen <input type="checkbox"/> None <input type="checkbox"/> painful <input type="checkbox"/> fever/feeling ill <input type="checkbox"/> warm to the touch <input type="checkbox"/> thickening of breast tissue |
| Pain, burning or discomfort during breastfeeding | <input type="checkbox"/> yes <input type="checkbox"/> no |
| Breast oozes with milk mixed with pus or blood | <input type="checkbox"/> yes <input type="checkbox"/> no If yes, which breast <input type="checkbox"/> right <input type="checkbox"/> left <input type="checkbox"/> both |
| Mother noticed anything wrong with breast? | <input type="checkbox"/> yes <input type="checkbox"/> no If yes, comment: _____ |
| Mother thinks breast milk is sufficient for her baby? | <input type="checkbox"/> yes <input type="checkbox"/> no |
| Bottle feeding? | <input type="checkbox"/> yes <input type="checkbox"/> no If yes, what is fed in a bottle? <i>(tick all that apply)</i> <input type="checkbox"/> breast milk at room temperature <input type="checkbox"/> warmed breast milk <input type="checkbox"/> animal milk <input type="checkbox"/> Formula milk <input type="checkbox"/> Other liquids e.g. Juices, etc. |
| Does the mother currently use hand expression? | <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> rarely <input type="checkbox"/> on occasion <input type="checkbox"/> often IF yes, why: <input type="checkbox"/> relieve engorgement <input type="checkbox"/> collect milk to feed the infant at a later time <input type="checkbox"/> aid in stimulation/production of milk |

CHAIN Number

[][0][0][0][][][][]

Breastfeeding assessment to be completed for all mothers and used to support feeding technique for all mothers at the end of the sample collection.

| Breastfeeding assessment (Observed) | | | |
|---|---|---------------------------------------|--|
| <i>Positioning</i> | | <i>Attachment</i> | |
| Baby's head and body in line | <input type="checkbox"/> yes <input type="checkbox"/> no | More areola seen above baby's top lip | <input type="checkbox"/> yes <input type="checkbox"/> no |
| Baby held close to mother's body | <input type="checkbox"/> yes <input type="checkbox"/> no | Baby's mouth open wide | <input type="checkbox"/> yes <input type="checkbox"/> no |
| Baby's whole body supported | <input type="checkbox"/> yes <input type="checkbox"/> no | Lower lip turned outward | <input type="checkbox"/> yes <input type="checkbox"/> no |
| Baby approaches breast nose to nipple | <input type="checkbox"/> yes <input type="checkbox"/> no | Baby's chin touches breast | <input type="checkbox"/> yes <input type="checkbox"/> no |
| <i>Suckling</i> | | <i>Mother</i> | |
| Slow deep sucks with pauses | <input type="checkbox"/> yes <input type="checkbox"/> no | Mother looks healthy | <input type="checkbox"/> yes <input type="checkbox"/> no |
| Cheeks round when suckling | <input type="checkbox"/> yes <input type="checkbox"/> no | Mother relaxed and comfortable | <input type="checkbox"/> yes <input type="checkbox"/> no |
| Baby releases breast when finished | <input type="checkbox"/> yes <input type="checkbox"/> no | Bonding with baby | <input type="checkbox"/> yes <input type="checkbox"/> no |
| Mother notices signs of oxytocin reflex (milk dripping by itself) | <input type="checkbox"/> yes <input type="checkbox"/> no | | |
| Mothers Diet | | | |
| Is mother currently on nutrition programme | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| Mothers dietary habits | <input type="checkbox"/> Mixed diet <input type="checkbox"/> Vegetarian but with milk <input type="checkbox"/> Strictly vegetarian <input type="checkbox"/> Others | | |
| What time did mother take breakfast this morning? (<i>indicate approximate time</i>) | ___:___ (hh:mm) <input type="checkbox"/> None | | |
| List all foods and liquids consumed as part of breakfast (include liquids) | <input type="checkbox"/> None 1. 2. 3. 4. 5. | | |
| What time did you eat dinner last night? (<i>estimated time</i>) | ___:___ (hh:mm) <input type="checkbox"/> None | | |
| List all foods and liquids consumed as part of dinner (include liquids) | <input type="checkbox"/> None 1. 2. 3. 4. 5. | | |
| List all foods and liquids consumed as snacks between dinner and breakfast (during the night) | <input type="checkbox"/> None 1. 2. 3. 4. | | |

CHAIN Number

[][0][0][0][][][][]

| <p>In the past 7 days, did the mother consume at least 1 tablespoon of the following food?</p> <p>If yes, how many times?</p> | <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 20%;"></th> <th style="width: 40%; text-align: center;">Number of times</th> </tr> </thead> <tbody> <tr> <td style="text-align: right;">Pulses</td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td style="text-align: center;"><input style="width: 50px; height: 20px;" type="text"/></td> </tr> <tr> <td style="text-align: right;">Nuts and seeds</td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td style="text-align: center;"><input style="width: 50px; height: 20px;" type="text"/></td> </tr> <tr> <td style="text-align: right;">Dairy</td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td style="text-align: center;"><input style="width: 50px; height: 20px;" type="text"/></td> </tr> <tr> <td style="text-align: right;">Meat, poultry and fish</td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td style="text-align: center;"><input style="width: 50px; height: 20px;" type="text"/></td> </tr> <tr> <td style="text-align: right;">Eggs</td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td style="text-align: center;"><input style="width: 50px; height: 20px;" type="text"/></td> </tr> <tr> <td style="text-align: right;">Dark green leafy vegetables</td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td style="text-align: center;"><input style="width: 50px; height: 20px;" type="text"/></td> </tr> <tr> <td style="text-align: right;">Yellow fruits and vegetables</td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td style="text-align: center;"><input style="width: 50px; height: 20px;" type="text"/></td> </tr> <tr> <td style="text-align: right;">Other fruits and vegetables</td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td style="text-align: center;"><input style="width: 50px; height: 20px;" type="text"/></td> </tr> </tbody> </table> | | | Number of times | Pulses | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input style="width: 50px; height: 20px;" type="text"/> | Nuts and seeds | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input style="width: 50px; height: 20px;" type="text"/> | Dairy | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input style="width: 50px; height: 20px;" type="text"/> | Meat, poultry and fish | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input style="width: 50px; height: 20px;" type="text"/> | Eggs | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input style="width: 50px; height: 20px;" type="text"/> | Dark green leafy vegetables | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input style="width: 50px; height: 20px;" type="text"/> | Yellow fruits and vegetables | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input style="width: 50px; height: 20px;" type="text"/> | Other fruits and vegetables | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input style="width: 50px; height: 20px;" type="text"/> |
|--|---|---|--|-----------------|--------|--|---|----------------|--|---|-------|--|---|------------------------|--|---|------|--|---|-----------------------------|--|---|------------------------------|--|---|-----------------------------|--|---|
| | | Number of times | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pulses | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input style="width: 50px; height: 20px;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nuts and seeds | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input style="width: 50px; height: 20px;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dairy | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input style="width: 50px; height: 20px;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meat, poultry and fish | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input style="width: 50px; height: 20px;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eggs | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input style="width: 50px; height: 20px;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dark green leafy vegetables | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input style="width: 50px; height: 20px;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yellow fruits and vegetables | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input style="width: 50px; height: 20px;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other fruits and vegetables | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input style="width: 50px; height: 20px;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Breastmilk collection | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Breastmilk collection attempted | <input type="checkbox"/> yes <input type="checkbox"/> no | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date of collection | <div style="text-align: center;"> ___ / ___ / _____ <i>D D / M M / Y Y Y Y</i> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time of collection (start) | ___:___ (hh:mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time of collection (end) | ___:___ (hh:mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| More than 20ml was collected using only the first breast? | <input type="checkbox"/> yes <input type="checkbox"/> no | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amount of milk sample collected from first breast? | ___mL | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Which breast was used | <input type="checkbox"/> right <input type="checkbox"/> left | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| If second breast was used, total milk volume obtained after full hand expression of 2 nd breast | ___mL <input type="checkbox"/> Not applicable | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unable to collect 20ml breastmilk sample why? | <input type="checkbox"/> insufficient milk in the breast <input type="checkbox"/> difficulty in expressing <input type="checkbox"/> other (specify) _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| How to best describe the milk collection process | <input type="checkbox"/> Milk flow was fast and easy <input type="checkbox"/> Milk flow was slow and difficult | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Was mother experienced in hand expression | <input type="checkbox"/> Experienced <input type="checkbox"/> Not experienced | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CHAIN Number
[][0][0][0][][][][]

| | | | |
|--|-------|---|-------------------|
| CRF Completed by (Initials) – to be signed when complete. <i>Do not sign if any fields are empty</i> | _____ | Date ____/____/_____ <i>D D / M M / Y Y Y Y</i> | Time ____:____ |
|--|-------|---|-------------------|

CHAIN Number
[][0][0][0][][][][]

FOLLOW-UP DAY 45

| Special Circumstances | |
|---|---|
| Mother is currently taking any nutrition supplements | <input type="checkbox"/> yes <input type="checkbox"/> no |
| If yes, write down names of the supplements the mother is taking: <i>(Ask to see the supplement packaging and write the name of supplement)</i> | <input type="checkbox"/> Unknown 1. 2. 3. 4. |
| Time since mother took the last supplement? | <input type="checkbox"/> <1 hr <input type="checkbox"/> 1-3 hrs <input type="checkbox"/> 3-6 hrs <input type="checkbox"/> >6 hrs <input type="checkbox"/> Unknown |
| Mother is currently taking any medicine | <input type="checkbox"/> yes <input type="checkbox"/> no |
| If yes, list names of the medicine the mother is taking: <i>(Ask to see medicine and write the names of the medicine. IF mother is HIV positive, ensure names of ART medications are listed.)</i> | <input type="checkbox"/> Unknown 1. 2. 3. 4. |
| Mother is currently breastfeeding more than one child (e.g. twins) | <input type="checkbox"/> yes <input type="checkbox"/> no |
| Current Breastfeeding status | |
| Is this child currently breastfeeding? | <input type="checkbox"/> yes <input type="checkbox"/> no |
| Breastfeeding frequency in the past 24 hrs? | <input type="checkbox"/> <4 times <input type="checkbox"/> 4-8 times <input type="checkbox"/> >8 times <input type="checkbox"/> N/A – no longer breastfeeding |
| If NO longer breastfeeding, age in months when child stopped breastfeeding | __ __ age in months |
| Reason for stopping breastfeeding? | <input type="checkbox"/> insufficient breastmilk <input type="checkbox"/> return to work/school <input type="checkbox"/> mother's illness <input type="checkbox"/> mother's death <input type="checkbox"/> fatigue <input type="checkbox"/> other reasons |
| Breast assessment | |
| Does the right breast look healthy? | <input type="checkbox"/> yes <input type="checkbox"/> no IF no, Nipples are cracked <input type="checkbox"/> slight <input type="checkbox"/> severe with bleeding |
| Does the left breast look healthy? | <input type="checkbox"/> yes <input type="checkbox"/> no IF no, Nipples are cracked <input type="checkbox"/> slight <input type="checkbox"/> severe with bleeding |

CHAIN Number

[][0][0][0][][][][]

| | |
|---|--|
| Size and shape of nipples | <p>Right nipple</p> <input type="checkbox"/> inverted <input type="checkbox"/> flat <input type="checkbox"/> pointed on one end <input type="checkbox"/> round (normal) <p>Left nipple</p> <input type="checkbox"/> inverted <input type="checkbox"/> flat <input type="checkbox"/> pointed on one end <input type="checkbox"/> round (normal) |
| Size and shape of breast | <p>Right breast</p> <input type="checkbox"/> large <input type="checkbox"/> engorged and painful <input type="checkbox"/> full / rounded (normal) <input type="checkbox"/> flat / deflated <input type="checkbox"/> small <p>Left breast</p> <input type="checkbox"/> large <input type="checkbox"/> engorged and painful <input type="checkbox"/> full / rounded (normal) <input type="checkbox"/> flat / deflated <input type="checkbox"/> small |
| Dripping milk | <input type="checkbox"/> yes <input type="checkbox"/> no |
| Signs of inflammation or infection (tick all that apply) | <input type="checkbox"/> redness <input type="checkbox"/> swollen <input type="checkbox"/> painful <input type="checkbox"/> fever/feeling ill <input type="checkbox"/> warm to the touch <input type="checkbox"/> None <input type="checkbox"/> thickening of breast tissue |
| Pain, burning or discomfort during breastfeeding | <input type="checkbox"/> yes <input type="checkbox"/> no |
| Breast oozes with milk mixed with pus or blood | <input type="checkbox"/> yes <input type="checkbox"/> no If yes, which breast <input type="checkbox"/> right <input type="checkbox"/> left <input type="checkbox"/> both |
| Mother noticed anything wrong with breast? | <input type="checkbox"/> yes <input type="checkbox"/> no If yes, comment: _____ |
| Mother thinks breastmilk sufficient for her baby? | <input type="checkbox"/> yes <input type="checkbox"/> no |
| Bottle feeding? | <input type="checkbox"/> yes <input type="checkbox"/> no <p>If yes, what is fed in a bottle?</p> <input type="checkbox"/> breast milk at room temperature <input type="checkbox"/> warmed breast milk <input type="checkbox"/> animal milk <input type="checkbox"/> Formula milk <input type="checkbox"/> Other liquids e.g. Juices, etc. |
| Does the mother currently use hand expression? | <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> rarely <input type="checkbox"/> on occasion <input type="checkbox"/> often <p>If yes, why:</p> <input type="checkbox"/> relieve engorgement <input type="checkbox"/> collect milk to feed the infant at a later time <input type="checkbox"/> aid in stimulation/production of milk |

CHAIN Number
[][0][0][0][][][][]

| Mothers Diet | |
|---|---|
| Is mother currently on nutrition programme | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Mothers dietary habits | <input type="checkbox"/> Mixed diet <input type="checkbox"/> Vegetarian but with milk <input type="checkbox"/> Strictly vegetarian <input type="checkbox"/> Others |
| What time did mother take breakfast this morning? (indicate approximate time) | __ __ : __ __ (hh:mm) <input type="checkbox"/> None |
| List all foods and liquids consumed as part of breakfast (include liquids) | <input type="checkbox"/> None 1. 2. 3. 4. 5. |
| What time did you eat dinner last night? (estimated time) | __ __ : __ __ (hh:mm) <input type="checkbox"/> None |
| List all foods and liquids consumed as part of dinner (include liquids) | <input type="checkbox"/> None 1. 2. 3. 4. 5. |
| List all foods and liquids consumed as snacks between dinner and breakfast (during the night) | <input type="checkbox"/> None 1. 2. 3. 4. |
| Breastmilk collection | |
| Breastmilk collection attempted | <input type="checkbox"/> yes <input type="checkbox"/> no |
| Date of collection | __ __ / __ __ / __ __ __ __ D D / M M / Y Y Y Y |
| Time of collection (start) | __ __ : __ __ (hh:mm) |
| Time of collection (end) | __ __ : __ __ (hh:mm) |
| More than 20ml was collected using only the first breast? | <input type="checkbox"/> yes <input type="checkbox"/> no |
| Amount of milk sample collected from first breast? | __ __ mL |
| Which breast was used | <input type="checkbox"/> right <input type="checkbox"/> left |

CHAIN Number
 [][0][0][0][][][][]

| | |
|---|--|
| <p>If second breast was used, total milk volume obtained after full hand expression of 2nd breast</p> | <p>___mL <input type="checkbox"/> Not applicable</p> |
| <p>Unable to collect 20ml breastmilk sample why?</p> | <p><input type="checkbox"/> insufficient milk in the breast <input type="checkbox"/> difficulty in expressing <input type="checkbox"/> other (specify) _____</p> |
| <p>How to best describe the milk collection process</p> | <p><input type="checkbox"/> Milk flow was fast and easy <input type="checkbox"/> Milk flow was slow and difficult</p> |
| <p>Was mother experienced in hand expression</p> | <p><input type="checkbox"/> Experienced <input type="checkbox"/> Not experienced</p> |

| | | | |
|--|--------------|--|------------------------------------|
| <p>CRF Completed by (Initials) – to be signed when complete. <i>Do not sign if any fields are empty</i></p> | <p>_____</p> | <p>Date ___/___/_____ <i>D D / M M / Y Y Y Y</i></p> | <p>Time ____:____</p> |
|--|--------------|--|------------------------------------|