



CHAIN Number [5][0][0][0][2][][][]
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| Follow up at 90 days TO BE COMPLETED WITHIN 14 DAYS OF SCHEDULED APPT BY TELEPHONE IF PARTICIPANT UNABLE TO ATTEND. IF PARTICIPANT ATTENDS LATER, AMEND CRF | | | |
|---|--|--|--|
| DATE SEEN: | ___/___/____ <i>D D / M M / Y Y Y Y</i> | TIME SEEN: 24H Clock | __:__:__ |
| Informed consent reviewed with caregiver | <input type="checkbox"/> Yes <input type="checkbox"/> No | Caregiver gives consent for samples at this appointment? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Seen at: | <input type="checkbox"/> Hospital / clinic | <input type="checkbox"/> Seen in community | <input type="checkbox"/> Not seen |
| If not seen within 2 weeks of scheduled appointment | <input type="checkbox"/> Confirmed alive only e.g. telephoned to confirm vital status | DATE CONTACTED | ___/___/____ <i>D D / M M / Y Y Y Y</i> |
| | <input type="checkbox"/> Confirmed dead Complete verbal autopsy and study conclusion | DATE CONTACTED | ___/___/____ <i>D D / M M / Y Y Y Y</i> |
| Not seen within 2 weeks but willing to attend appointment in future <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Unable to contact by | DATE OF LAST TELEPHONE CALL ___/___/____ HOME VISIT ___/___/____ If patient did not attend and could not be reached by telephone ___/___/____ <i>D D / M M / Y Y Y Y</i> | DATE OF HOME VISIT ___/___/____ <i>D D / M M / Y Y Y Y</i> |

| Anthropometry and Nutrition | | | |
|--|-------------------------------|--|-------------------------------|
| Weight to be taken using SECA scales for CHAIN | ___ __ . ___ __ kg | Length to be taken using SECA 416 infantometer provided for CHAIN | Measurer 1 ___ __ . ___ cm |
| | | | Measurer 2 ___ __ . ___ cm |
| MUAC | Measurer 1 ___ __ . ___ cm | Head circumference | Measurer 1 ___ __ . ___ cm |



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| <i>To be taken using MUAC tape for CHAIN</i> | Measurer 2 _____ . _____ cm | <i>To be taken using CHAIN measuring tape</i> | Measurer 2 _____ . _____ cm |
| Oedema | <input type="checkbox"/> None <input type="checkbox"/> + <input type="checkbox"/> ++ <input type="checkbox"/> +++ | Initials | Measurer 1 _____ Measurer 2 _____ |

| Current Health | | | | | |
|--|--|--|---|--|---|
| Child in usual state of health now? | Y | N | If No, length of current illness | Number of days: _____ _____ | |
| What symptoms are present now? <i>Select up to 3:</i> | | | | | |
| <input type="checkbox"/> No symptoms, child is well <input type="checkbox"/> Vomiting <input type="checkbox"/> Fever / Hotness of body <input type="checkbox"/> Lethargy <input type="checkbox"/> Diarrhoea <14 days <input type="checkbox"/> Difficulty breathing <input type="checkbox"/> Convulsions <input type="checkbox"/> Diarrhoea >14 days <input type="checkbox"/> Cough<14 days <input type="checkbox"/> Altered consciousness <input type="checkbox"/> Blood in stool <input type="checkbox"/> Cough>14days <input type="checkbox"/> Not feeding <input type="checkbox"/> Poor feeding / weight loss <input type="checkbox"/> Body swelling/ oedema <input type="checkbox"/> Rash / skin lesion | | | | | |
| Medication last 7 days. <i>Circle any that apply</i> | <input type="checkbox"/> No medication | <input type="checkbox"/> Antibiotic | <input type="checkbox"/> Antimalarial | <input type="checkbox"/> Deworming | <input type="checkbox"/> Multivitamin |
| | <input type="checkbox"/> Zinc | <input type="checkbox"/> Iron supplement | <input type="checkbox"/> Vitamin D/ Calcium | <input type="checkbox"/> Traditional / herbal / homeopathy | <input type="checkbox"/> Paracetamol/ Ibuprofen |
| | <input type="checkbox"/> ORS | <input type="checkbox"/> Antihistamine | | <input type="checkbox"/> Yes, but unknown | |

HOSPITAL ADMISSIONS



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|--|----------------------|------------------------------|--|
| Any admissions (e.g. overnight stay) to a hospital since last CHAIN appointment? | | | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown |
| If Yes: | Hospital Name | Length of stay (days) | Source of information |
| Admission date (estimate) | | | <input type="checkbox"/> Hospital letter or medical file <input type="checkbox"/> Parent/carer report |
| ____ / ____ / ____ D D / M M / Y Y Y Y | | ____ == | <input type="checkbox"/> Hospital letter or medical file <input type="checkbox"/> Parent/carer report |
| ____ / ____ / ____ D D / M M / Y Y Y Y | | ____ == | <input type="checkbox"/> Hospital letter or medical file <input type="checkbox"/> Parent/carer report |

| Outpatient Appointments | | |
|---|---|---|
| Participant attended outpatient appointment since last CHAIN appointment? | | |
| Nutrition follow-up only | Y | N |
| General paediatric appointment | Y | N |
| Cardiology appointment | Y | N |
| Neurology appointment | Y | N |
| HIV clinic | Y | N |
| TB clinic | Y | N |
| Sickle cell or thalassaemia clinic | Y | N |
| Outpatient blood transfusion | Y | N |
| Specialist Radiology | Y | N |
| Other specialist paediatric appointment | Y | N |

| Caregiver Appointments / Admissions | |
|--|---|
| <input type="checkbox"/> No outpatient appointment | <input type="checkbox"/> Not applicable – child in care |

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|---|----------------|---|
| Caregiver admitted to hospital since last CHAIN | Y appointment? | N |
| Psychiatry follow-up | Y | N |
| Antenatal care | Y | N |
| HIV clinic | Y | N |
| TB clinic | Y | N |
| Other | Y | N |

| Feeding | | | |
|---|--|---|--|
| Currently in outpatient nutrition program? <i>Select one. If not in feeding program circle 'none'</i> | <input type="checkbox"/> Supplementary <i>(corn soy blend, RUSF, khichuri, halwa etc)</i> | <input type="checkbox"/> Therapeutic <i>(RUTF, Plumpy-nut)</i> | <input type="checkbox"/> None |
| Has the child eaten these nutrition products in the last 3 days? | <input type="checkbox"/> Supplementary | <input type="checkbox"/> Therapeutic | <input type="checkbox"/> None |
| Currently Breastfeeding? | <input type="checkbox"/> Y <input type="checkbox"/> N | If yes, taking other foods/fluids? | <input type="checkbox"/> Y <input type="checkbox"/> N |
| If NO breastfeeding at all, age stopped (in months)? <i>Select one</i> | <input type="checkbox"/> 0-3m | <input type="checkbox"/> 4-6m <input type="checkbox"/> 7-12m | <input type="checkbox"/> >12m <input type="checkbox"/> Unknown |

| Vaccinations – Ask carer or check book / card if available | | | | | | |
|--|--|------------------|-------------------------------|--------------------------------------|---------------------------------------|--|
| BCG scar | <input type="checkbox"/> Yes <input type="checkbox"/> No | Rotavirus | <input type="checkbox"/> Book | <input type="checkbox"/> Self report | <input type="checkbox"/> Not received | Doses received: 3 2 1 <input type="checkbox"/> Unknown |



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|----------------|--|---------------------|--|--|
| Measles | <input type="checkbox"/> Book <input type="checkbox"/> Self report <input type="checkbox"/> Not received <input type="checkbox"/> Unknown | Pneumococcus | <input type="checkbox"/> Book <input type="checkbox"/> Self report <input type="checkbox"/> Not received | Doses received: 3 2 1 <input type="checkbox"/> Unknown |
| | | DTP/Penta | <input type="checkbox"/> Book <input type="checkbox"/> Self report <input type="checkbox"/> Not received | Doses received: 3 2 1 <input type="checkbox"/> Unknown |
| | | Polio | <input type="checkbox"/> Book <input type="checkbox"/> Self report <input type="checkbox"/> Not received | <input type="checkbox"/> Unknown |

| TB Screening | | | |
|-------------------------|--------------------------|---|---------------------------------------|
| Known TB (on treatment) | Child has cough >14 days | Household contact has TB, or cough >14 days | Child has suspected extrapulmonary TB |
| Y N | Y N | Y N | Y N |

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| CHANGES TO CHILD'S SOCIAL SITUATION | | | | |
|---|--|---|--|---|
| Has the primary caregiver mostly lived in the same household as the child since last appointment? | | | | <input type="checkbox"/> Y <input type="checkbox"/> N |
| Primary caregiver HIV status since discharge <i>Select one</i> | | <input type="checkbox"/> Known positive on treatment <input type="checkbox"/> Known positive not on treatment <input type="checkbox"/> Known <input type="checkbox"/> Unknown | | |
| Have there been changes to the child's social situation since discharge? <i>Select any that apply</i> | | | | |
| Child moved to a different household | Y N | Relocation from rural to urban setting <i>Select 'yes' even if this is temporary</i> | | Y N |
| | | Relocation from urban to rural setting <i>Select 'yes' even if this is temporary</i> | | Y N |
| | | Relocation to live with different caregiver <i>Select 'yes' even if this is temporary</i> | | Y N |
| Mother sick | Y N | Mother Died | | Y N |
| Father sick | Y N | Father Died | | Y N |
| Other primary caregiver sick | Y N N/A | Other primary caregiver died | | Y N N/A |
| Primary caregiver changed | Y N | Child went into care home | | Y N |
| Primary caregiver started employment / returned to school | Y N | Person providing for the child has lost income | | Y N |
| Primary caregiver divorced / separated from partner | Y N | Primary caregiver in new relationship | | Y N |
| Mother is pregnant | Y N | Mother gave birth | | Y N |
| Other primary caregiver pregnant? | Y N N/A | Other primary caregiver gave birth | | Y N N/A |
| If primary caregiver has changed since discharge months, who was the child's previous primary caregiver? <i>Select one</i> | | | | |
| <input type="checkbox"/> Biologic Mother | <input type="checkbox"/> Biologic Father | <input type="checkbox"/> Sibling ≥18 years old | <input type="checkbox"/> Sibling <18 years old | |
| <input type="checkbox"/> Grandparent | <input type="checkbox"/> Aunt/Uncle/Cousin | <input type="checkbox"/> Other | <input type="checkbox"/> N/A | |



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| Child Dietary Diversity | |
|---|--|
| What does your child eat on a typical day? <i>ASK THIS AS AN OPEN QUESTION AND SELECT ALL THAT THE CAREGIVER MENTIONS. DO NOT PRESENT THE CAREGIVER WITH THIS LIST. YOU MAY PROMPT THE CAREGIVER WITH OPEN QUESTIONS, e.g. WHAT DOES YOUR CHILD USUALLY EAT FOR BREAKFAST</i> | |
| <input type="checkbox"/> | Milk and Milk Products: Fresh/fermented milk, cheese, yogurt, or other milk products |
| <input type="checkbox"/> | Breast milk |
| <input type="checkbox"/> | Cereals and Cereal Products: Maize, rice, pasta, porridge, bread, biscuits, millet, sorghum, wheat and any other locally available grains |
| <input type="checkbox"/> | Fish and Sea Foods: fresh or dried fish or shellfish |
| <input type="checkbox"/> | Roots and Tubers: potatoes, sweet potatoes, yams, cassava, or foods made from roots or wild roots and tubers |
| <input type="checkbox"/> | Vegetables: Cabbages, carrots, spinach, and any other locally available vegetables including wild vegetables |
| <input type="checkbox"/> | Fruits: Oranges, bananas, mangoes, avocados, apples, grapes etc |
| <input type="checkbox"/> | Meats and Poultry: Camel, beef, lamb, goat, rabbit, wild game, chicken or other birds, liver, kidney, heart, other organ meats or blood-based foods |
| <input type="checkbox"/> | Eggs: Hen or other bird eggs |
| <input type="checkbox"/> | Pulses / Legumes / Nuts and Seeds: Beans, peas, lentils, nuts, seeds or foods made from these |
| <input type="checkbox"/> | Fats and Oils: Oil, fats, ghee, margarine or butter added to food or used for cooking |
| <input type="checkbox"/> | Sugars / Honey and Commercial Juices: Sugar in tea, honey, sweetened soda, juices, chocolates, sweets or candies |
| <input type="checkbox"/> | Miscellaneous: Spices, unsweetened beverages |

| Household Food Security | |
|--|--|
| During the past 7 DAYS has ANY member of the household missed a meal due to food shortage? | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Unknown |
| During the past 4 WEEKS | |
| Did you worry that your household would not have enough food? | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Unknown |
| Were any of your household unable to eat the kinds of food preferred because of a lack of resources? | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Unknown |



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|---|--|
| Have any of your household had to eat a limited variety of food due to lack of resources? | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Unknown |
| Have any of your household eaten some foods that you really didn't want to eat because of lack of resources? | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Unknown |
| Have any of your household eaten fewer meals in a day because there was not enough food? | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Unknown |
| Did household members go to sleep at night hungry because there was not enough food? | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Unknown |
| Did you or your household members go a whole day and night without eating anything because there was not enough food? | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Unknown |

| Plan day 180 visit | |
|---|--------------------------|
| Date of next visit <div style="text-align: center;"> __ / __ / ____ <i>D D / M M / Y Y Y Y</i> </div> | Any new contact details: |

| D90 Core Cohort Investigations and Sample Collection | | | |
|--|---|---------------------|--|
| CBC Taken | <input type="checkbox"/> Y <input type="checkbox"/> N | Serum sample taken? | <input type="checkbox"/> Y <input type="checkbox"/> N |
| EDTA 2ml plasma blood taken | <input type="checkbox"/> Y <input type="checkbox"/> N | Blood spot taken? | <input type="checkbox"/> Y <input type="checkbox"/> N |
| Unable to take blood samples, why? | <input type="checkbox"/> N/A <input type="checkbox"/> Difficult venepuncture <input type="checkbox"/> Child uncooperative <input type="checkbox"/> Parent refused <input type="checkbox"/> Other venepuncture within 12h <input type="checkbox"/> Readmitted – readmission samples | | |
| Rectal swabs taken | <input type="checkbox"/> Y BEFORE ABX <input type="checkbox"/> N Number taken <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> Y AFTER ABX | | Time taken ____: ____ |
| Stool sample taken | <input type="checkbox"/> Y <input type="checkbox"/> N Date taken: __ / __ / ____ <i>D D / M M / Y Y Y Y</i> | | Time taken ____: ____ <input type="checkbox"/> Unknown |



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| | |
|--|------|
| Blood Samples taken by (initials) | ____ |
| Rectal Swabs taken by (initials) | ____ |

| | | | |
|--|------|---|--------------------------|
| 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 ____:____ |
|--|------|---|--------------------------|