Summary of Major Changes in the 2021 version of the IMNCI Materials

This revised version (2021 edition) of the Integrated Management of Newborn and Childhood Illness training material has incorporated the following changes over the 2015 version

Sick Young Infant <2 months section

Essential newborn care actions

• Temperature measurement is included in step 9 of ENC.

Check for very severe disease

- Former (2015) one pink classification (Very Severe Disease) is subdivided into two pink classifications (Critical Illness and VSD) and a third yellow classification (Pneumonia).
- The former Low body temperature classification is removed as a separate classification.

Early childhood development (ECD)

 Developmental milestones assessment of young infant to identify any suspected developmental delay is included for the first time in 2021 CB.

Immunization:

• Birth dose Hep B vaccine is included in immunization schedule.

Sick Child 2 – 59 Months Section

General danger sign (GDS)

GDS and Cough are separated and now in two pages in the CB

Cough or difficulty breathing

• Oxygen saturation (SpO2<90%) is included as a sign of severe pneumonia (VSD).

Diarrhea

• Single dose Vitamin A therapeutic dose (instead of three doses in 2015) is recommended for treatment of persistent diarrhoea.

Fever

- Malaria classification is based on BF only. RDT based classification is for health posts only.
- Primaquine is included for treatment of malaria. Single dose for P falciparum and 14 days (radical cure) for P vivax malaria.

Ear problem

• IV/IM Ceftriaxone is included as first line pre referral treatment for Mastoiditis

Anemia

• Assessment and classification of anemia was merely based on subjective/clinical palmar pallor assessment. But in 2021 version, Hb/Hct measurement is included as a priority criterion for classifying anemia.

Malnutrition

- · Many changes and updates are included in malnutrition part, major ones include
- In < 6 months old, two classifications (complicated SAM and Uncomplicated SAM) are merged into one pink SAM classification in 2021-IMNCI-CB.
- Severe wasting cut point is changed from MUAC of 11 to 11.5cm.
- Appetite test procedure and interpretation as passed/fail is changed.
- OTP discharge criteria is changed, target weight based discharge criteria is dropped.
- No need of giving supplementary high dose Vit A to child on RUTF, unless there is sign of Vit A deficiency or measles.
- Feeding assessment is moved to assess and classify part as a new classification table, from the former counsel the mother on food part. HIV section

ΤВ

- The assessment questions and investigation of TB are organized in two step approach.
- Suspected MDR TB classification is dropped.
- · Former TB classification is renamed as TB Disease, and TB Exposed child is renamed as TB Infection.

Early childhood development (ECD)

Developmental milestones assessment of sick child to identify developmental delay is included for the first time in 2021 CB.

Immunization

• IPV at 14 wks old and MCV2 (Measles second dose) at 15 months old are included.

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ESSENTIAL NEWBORN CARE ACTIONS

Immediate Newborn Care After Birth

Step 1

Dry baby's body with dry and warm towel. Wipe eye, as you dry stimulate breathing. Wrap with another dry towel and cover the head while the baby is on mother's abdomen.

Step 2

Assess Breathing, while drying, and manage accordingly - See BIRTH ASPHYXIA chart .

Step 3

Clamp/tie the cord two fingers from abdomen and another clamp/tie two fingers from the 1st one.

Cut the cord between the 1st and 2nd clamp/tie.

Step 4

Place the baby in skin-to-skin contact with the mother.

Keep all babies without complication, in skin to skin contact for one hour.





Step 5

Initiate breastfeeding immediately within 1 hour of life.

Step 6:

Apply Tetracycline eye ointment once on both eyes.



Step 7 Apply Chlorohexidine on the cord.



Step 8

Give Vitamin K, 1 mg IM on anterior mid lateral thigh. (If GA < 34 wks or Wt<1,500gm, 0.5 mg).

Step 9

Measure baby temperature, Weigh baby & classify - See BIRTH WT & GA Chart.

NOTES

a) If baby needs resuscitation cut the cord immediately.

Otherwise, wait for 1-3 minutes.

b) Place newborn identification band on the wrist or ankle.

c) Don't forget to record what is done to the newborn.

d) Give HepB-BD, BCG and OPV 0 before discharge.

e) Delay bathing of the baby for 24 hours after birth.

f) Advise mother to apply Chlorohexidine on the cord daily for 7 days and NEVER apply to the eves.

g) If mother has respiratory infections (like flu, Covid), advise her to wear face mask and to wash her hands while caring the newborn,

h) Provide postnatal visits at 6 - 24 hours, 3 days, 7 days and immunization visit at 6 weeks.

CHECK THE NEWBORN FOR BIRTH ASPHYXIA

ASSESS

CLASSIFY

IDENTIFY TREATMENT

IF YOU ARE ATTENDING DELIVERY or BABY BROUGHT TO YOU IMMEDIATELY AF	TER BIRTH	SIGNS	CLASSIFY AS	TREATMENT (Urgent pre-referral treatments are in bold print)
Assess and check for Birth Asphyxia while drying and wrapping with dry cloth		If any of the following sign: Not breathing, OR Gasping, OR Breathing poorly 	BIRTH ASPHYXIA	 Start resuscitation immediately Clear mouth first, then nose with bulb syringe If not breathing Clamp/tie and cut the cord immediately
 Assess, Look Look the breathing Is baby not breathing? 	Classify ALL Newborns	(<30 breaths/minute)		 Position the newborn supine with neck slightly extended Ventilate with appropriate size bag & mask If baby starts breathing regularly, continue giving essential newborn care
(No crying is considered as no				 If baby remains weak or is having irregular breathing after 20 minutes of resuscitation; refer
breathing)				urgently to hospital while continuing to resuscitate on the way
- Is baby gasping?				 If baby shows no response (no spontaneous breathing)
- Is baby breathing poorly				after 20 minutes, stop resuscitation ► Monitor baby and mother continuously for 6 hours
(<30 breaths/minute)?				 Follow after 12 hrs, 24 hrs (in the facility), 3 days, 7 days and 6 weeks
- Is baby breathing normally				 Give cord care
(crying or ≥30 breaths/minute)?		 Breathing normally (crying or ≥30 breaths/ minute) 	NO BIRTH ASPHYXIA	 Give cord care Initiate skin-to-skin contact Initiate breastfeeding Give eye care Give Vitamin K Apply Chlorhexidine gel Give HepB-BD, BCG and OPV 0 Advise mother when to return immediately Follow after 6 hrs (in the facility), 3 days and 7 days and 6 weeks

CHECK THE NEWBORN FOR BIRTH WEIGHT AND GESTATIONAL AGE (< 7 days old)

ASSESS

CLASSIFY

IDENTIFY TREATMENT

Assess, Look	Classify ALL	SIGNS	CLASSIFY AS	TREATMENT (Urgent pre-referral treatments are in bold print)
 Ask the gestational age Ask for birth weight or Weigh the baby (with in 7 days of life) 	Newborn Babies	 Weight < 1,500gm OR Gestational age < 32 weeks 	VERY LOW BIRTH WEIGHT AND/OR VERY PRETERM	 Continue breastfeeding (if not sucking feed expressed breast milk by cup) Start Kangaroo Mother Care (KMC) Give Vitamin K 0.5mg IM on anterior mid lateral thigh, if not already given Refer URGENTLY with mother to hospital with KMC position
		 Weight 1,500 - 2,500 gm OR Gestational age 32-37 weeks 	LOW BIRTH WEIGHT AND/OR PRETERM	 KMC if <2,000gm (in the HF or Hospital) Counsel on optimal breastfeeding Counsel mother on prevention of infection Give Vitamin K 1mg IM (if GA < 34 wks, 0.5 mg IM) on anterior mid lateral thigh if not already given Provide follow-up for KMC If baby ≥ 2,000 gms follow-up visits at age 6 –24 hrs, 3 days, 7 days & 6 weeks Give 1st dose of vaccine Advise mother when to return immediately
		 Weight ≥ 2,500 gm OR Gestational age ≥ 37 weeks 	NORMAL BIRTH WEIGHT AND/OR TERM	 Counsel on optimal breastfeeding Counsel mother/family on prevention of infection Provide follow-up visits at age 6-24 hrs, 3 days, 7 days & 6 weeks Give 1st dose of vaccine Give Vitamin K 1mg IM on anterior mid thigh if not already given Advise mother when to return immediately

ASSESS, CLASSIFY AND TREAT THE SICK YOUNG INFANT FROM BIRTH UP TO 2 MONTHS CHECK FOR VERY SEVERE DISEASE AND LOCAL BACTERIAL INFECTION

		Classify	SIGNS	CLASSIFY AS	TREATMENT
Ask	LUUK, LISIEII, FEEI.	Ill young			(Urgent pre-referral treatments are in bold print)
 Is the infant having difficulty in feeding? If yes: 	 Count the breaths in one minute Repeat the count if ≥ 60/min Look for severe chest indrawing See if the infant is not feeding 	infants	 Unable to feed, OR History of convulsions/convulsing now, OR No movement even when stimulated. 	CRITICAL ILLNESS	 Give first dose IM Ampicillin and Gentamicin Advise mother how to keep the infant warm on the way to the hospital Reinforce referral and admit/refer URGENTLY to hospital^b
 Unable to feed? Or Not feeding well Has the infant had convulsions? 	 See if the infant is convulsing now Look at the umbilicus. Is it red or draining pus? Measure axillary temperature Look for skin pustules Look at the young infant's movements. If 		 Not feeding well, OR Movement only when stimulated, OR Fast breathing (≥60 bpm) and infant is < 7 days old, OR Severe chest indrawing, OR Fever (≥37.5°C^a), OR Low body temperature (< 35.5°C^a), 	VERY SEVERE DISEASE	 Give first dose IM Ampicillin and Gentamicin Treat to prevent low blood sugar Warm infant by skin-to-skin contact if temperature < 36.5°C while arranging referral Advise mother how to keep the infant warm on the way to the hospital Refer URGENTLY to hospital ^b
	the infant is sleeping, ask the mother to wake him/her		 Fast breathing (≥60 bpm) and infant is ≥ 7 days old, 	PNEUMONIA	 Give Amoxicillin for 7 days Advise mother when to return immediately Follow-up after 2 days of Amoxicillin
	 Infant move on his/her own Infant move only when stimulated Infant doesn't move even when stimulated 	1	 No sign of Critical Illness, Very Severe Disease, Pneumonia 	SEVERE INFECTION UNLIKELY	 If temperature is from 35.5°C - 36.4°C warm the infant using skin-to-skin contact for one hour and reassess, If same after an hour, advise mother on how to keep the infant warm at home. Advise mother to give home care for the infant Advise mother when to return immediately
	s are based on axillary temperature. The				
0.5 °C higher. In a considered based on	al temperature readings are approximately young infant with fever, malaria should be other associated symptoms. sible, see "Where Referral is not Possible" part.	and if local infection	Red umbilicus or draining pus, ORSkin pustules	LOCAL BACTERIAL INFECTION	 Give Amoxicillin for 5 days Teach mother to treat local infections at home Advise mother when to return immediately Follow-up after 2 days of Amoxicillin

CHECK FOR JAUNDICE

ASSESS

CLASSIFY

IDENTIFY TREATMENT

		SIGNS	CLASSIFY AS	TREATMENT (Urgent pre-referral treatments are in bold print)
 Look for jaundice: Is skin on the face or eyes yellow? Are the palms and soles yellow? 	Classify all infants	 Palms and/or soles yellow, OR Skin and eyes yellow and baby is < 24 hrs old, OR Skin and eyes yellow and baby is ≥14 days old 	SEVERE JAUNDICE	 Treat to prevent low blood sugar Warm the young infant by skin-to-skin contact if temperature is less than 36.5°C while arranging referral Advise mother how to keep the young infant warm on the way to the hospital Refer URGENTLY to hospital
		 Only skin on the face or eyes yellow, AND Infant aged 24 hrs -14 days old 	JAUNDICE	 Advise mother to give home care for the young infant Advise the mother to expose and check in natural light daily Advise the mother to return immediately if the infant's palms or soles appear yellow. Advise mother when to return immediately Follow-up after 2 days
		No yellowish discoloration of the eye and skin	NO JAUNDICE	 Advise mother to give home care for the infant

TREATMENT SIGNS **CLASSIFY AS** (Urgent pre-referral treatments are in bold print) THEN ASK: Two of the following If infant has another severe classification: **Does the Young Infant Have Diarrhoea?** SEVERE - Refer URGENTLY to hospital with mother giving signs: DEHYDRATION frequent sips of ORS on the way Movement only for - Advise mother to continue breastfeeding more when stimulated, or dehydration frequently no movement even Ask Look and Feel: when stimulated - Advise mother how to keep the young infant warm on the way to hospital • Sunken eves Look at the young infant's general For how If infant does not have any other severe classification; give Skin pinch goes condition. long? fluid for severe dehydration (Plan C). back very slowly - Infant moves only when Classifv Two of the following ► If infant has another severe classification: stimulated DIARRHOEA • Is there SOME - Refer URGENTLY to hospital with mother giving signs: - Infant does not move even when blood in the Restless, irritable DEHYDRATION frequent sips of ORS on the way stimulated stool? - Advise mother to continue breastfeeding more Sunken eyes - Infant restless and irritable frequently Skin pinch goes - Advise mother how to keep the young infant warm on • Look for sunken eyes back slowly the way to hospital ► If infant does not have any other severe classification; Pinch the skin of the abdomen. - Give fluid for some dehydration and Zinc supplement Does it go back: (Plan B) - Very slowly (> 2 sec.)? - Advise mother when to return immediately - Slowly? - Follow-up in 2 days Advise mother when to return immediately Not enough signs to NO ► Follow-up in 5 days if not improving classify as some or DEHYDRATION Give fluids to treat diarrhoea at home and Zinc. severe dehydration supplement (Plan A) ► Give first dose of IM Ampicillin and Gentamicin and if diarrhoea **Diarrhoea** lasting SEVERE 14 days or more 14 days or more PERSISTENT Treat to prevent low blood sugar Advise how to keep infant warm on the way to the DIARRHOEA hospital Refer to hospital * What is diarrhoea in young infant? Give first dose of IM Ampicillin and Gentamicin Blood in stool DYSENTERY If the stools have changed from usual pattern: many and watery and if blood Treat to prevent low blood sugar (more water than fecal matter). The frequent and loose stools of a breastfed baby may be normal and are not always diarrhoea Advise how to keep infant warm on the way to the in stool hospital Refer to hospital

ASSESS THE YOUNG INFANT FOR DIARRHOEA

CHECK THE YOUNG INFANT FOR HIV EXPOSURE AND INFECTION

ASK:	Classify	SIGN	CLASSIFY AS	TREATMENT
 What is the HIV status of the mother? Positive Negative Unknown What is the HIV status of the young infant? Antibody: 	by Test Result	Young infant DNA PCR positive	HIV INFECTED	 Start Cotrimoxazole Prophylaxis from 6 weeks of age Assess feeding and counsel Assess for TB infection Refer /Link to ART clinic for immediate AF initiation and other care Ensure mother is tested and enrolled for HIV care, treatment and follow up
 Positive Negative Unknown DNA PCR: Positive Negative Unknown 		 Young infant HIV antibody positive, OR Mother HIV positive, And Young infant DNA PCR unknown, OR Mother HIV positive, And Young infant DNA PCR negative And Breastfeeding 	HIV EXPOSED	 Start Co-trimoxazole Prophylaxis from 6 weeks of age Assess feeding and counsel If DNA PCR test is unknown, test as soor as possible starting from 6 weeks of age Ensure both mother and baby are enrolled in mother-baby cohort follow up at ANC/ PMTCT clinic Ensure provisions of other components of care
 If mother is HIV positive, and infant has negative DNA PCR, ASK: Is the infant breastfeeding now? 		 Mother and Young infant not tested 	HIV STATUS UNKNOWN	 Initiate HIV testing and counselling. Conduct HIV test for the mother and if positive, a virological test for the infant. Conduct virological test for the infant if mother is not available (Eg orphan)
		 Mother or young infant HIV antibody negative OR Mother HIV positive, And Infant DNA PCR negative And NOT breastfeeding 	HIV INFECTION UNLIKELY	 Advise on home care of infant Assess feeding and counsel Advise the mother on HIV prevention

CHECK FOR FEEDING PROBLEM OR UNDERWEIGHT — BREASTFEEDING YOUNG INFANT

			SIGN	CLASSIFY AS	TREATMENT
Ask	Look and Feel:		If any of the following signs:		Advise the mother to breastfeed as often and for as long as the infant wants, day and night
 Is there is any difficulty of feeding? Is the infant breastfed? If yes?	 Determine weight for age (WFA) ^A Look for ulcers or white patches in the 	Classify	Not well positioned or		 If baby not sucking, show her how to express breast milk
How many times in 24 hours?Do you empty one breast before switching to the other?	mouth (thrush)	FEEDING & UNDER- WEIGHT	Not well attached to breast or		 If not well positioned, attached or not suckling effectively, teach correct positioning and attachment
 Do you increase frequency of breastfeeding during illness? Does the infant receive any other foods o 	r		 Not suckling effectively or 	FEEDING PROBLEM	 If breastfeeding less than 8 times in 24 hours, advise to increase frequency of feeding
			 Less than 8 breastfeeds in 24 hours or 	OR UNDERWEIGHT	 Empty one breast completely before switching to the other
IF AN INFANT	 Has no indication to refer urgently to hospital, a Infant is on breastfeeding 	and	 Switching the breast 		 Increase frequency of feeding during and after illness
ASSESS BREASTFEEDING: Has the infa	Assess Breastfeeding nt breastfed in the previous hour?		frequently or		If receiving other foods or drinks, counsel mother on exclusive breast feeding.
			 Not increasing frequency of breastfeeding during 		 If not breastfeeding at all: Counsel on breastfeeding and relactation
Observe the breastfeeding for 4 minutes			illness or		 If no possibility of breastfeeding:* Advise about correct preparation of breast milk substitutes
- If the infant was fed during the last hour, a infant is willing to feed again.	ask the mother if she can wait and tell you when the		 Receives other foods or drinks or 		and using a cup If thrush, teach the mother to treat thrush at home
Is the infant well positioned? To check the positioning, look for: - Infant's head and body			The mother not breastfeeding at all or		 Advise mother to give home care for the young infant Ensure infant is tested for HIV
	er body whole body (all of these signs should be present if th	ne	• WFA < -2Z (Underweight) or		 Follow-up any feeding problem or thrush in 2 days Follow-up for underweight in 14 days
positioning is good)Is the infant able to attach?			 Thrush (ulcers or white patches in mouth) 		
To check the attachment, look for: - Chin touching the breas - Mouth wide open - Lower lip turned outwar	st		WFA ≥ -2Z And No other signs of FEEDING PROBLEM	NO FEEDING PROBLEM AND NOT UNDERWEIGHT	 Advise mother to give home care for the young infant Praise the mother for feeding the infant well
	we than below the mouth (all of these signs should	A. Fo			& 89) annexed at the end of the chart booklet.
	t is slow deep sucks, sometimes pausing)? ng effectively Suckling effectively with breastfeeding		the young infant has visible sev essment box to classify for Seve		ema, use the sick child acute malnutrition as- on.

CHECK FOR FEEDING PROBLEM OR UNDERWEIGHT— NOT BREASTFEEDING INFANT

WHEN AN HIV POSITIVE MOTHER HAS MADE INFORMED DECISION NOT TO BREASTFEED, OR NO CHANCE OF BREASTFEEDING BY ANY OTHER REASON

				r i i	
			SIGNS	CLASSIFY AS	TREATMENT
 Ask Is there any difficulty in feeding? What milk are you giving? How many times during the day and night? ^a How much is given at each feed? How are you preparing the milk? Let the mother demonstrate or explain how a feed is prepared, and how it is given to the infant Are you giving any breast milk? What foods or fluids in addition to the replacement feeding is given? How is the milk being given? Cup or bottle? How are you cleaning the utensils? 	 Look, Feel: Determine weight for age (WFA) Look for mouth ulcers or white patches in the mouth (oral thrush). 	Classify FEEDING & UNDER-	 If any of the following signs: Milk incorrectly or unhygienically prepared or Giving inappropriate replacement milk or other foods/fluids or Giving insufficient replacement feeds or Mother mixing breast milk and other feeds or Using a feeding bottle or WFA < -2Z 	FEEDING PROBLEM OR UNDERWEIGHT	 Counsel on optimal replacement feeding Identify concerns of the mother and the family about feeding. Help the mother gradually withdraw other foods or fluids If mother is using a bottle, teach cup feeding If thrush, teach the mother to treat thrush at home Advise mother how to feed and keep the young infant warm at home
a. To determine correct preparation and amount of the mother—Safe preparation of Formula Feeding" (See p		insel the	 (Underweight) or Thrush (ulcers or white patches in mouth) WFA ≥ -2Z And No other signs of FEEDING PROBLEM 	NO FEEDING PROBLEM & NOT UNDERWEIGHT	 Follow-up any feeding problem or thrush in 2 days Follow-up underweight in 14 days Advise mother to give home care for the young infant Praise the mother for feeding the infant well

CHECK THE DEVELOPMENT OF THE YOUNG INFANT, <2 MONTHS OLD

If the infant has severe classification, don't do the assessment of development	Classify	SIGN	CLASSIFY AS	TREATMENT
 development. Ask and Verify Ask child's current age Are there any risk factors that can affect how this child is developing Risk factors: Difficult birth or any neonatal admission, Prematurity or low birth weight, Malnutrition, Head circumference too large or too small, HIV or exposure to HIV and Serious infection or illness. 		Absence of one or more milestones from current age group	SUSPECTED DEVELOPMENTAL DELAY	 Praise caregiver on milestones achieved Counsel caregiver on play & communication, responsive caregiving activities to do at home Screen for other possible causes including malnutrition, TB disease Advise to return for follow up in 30 days
 Environmental factors: Very young or elderly caregiver; abuse of drugs or alcohol; maternal depression, signs of violence or neglect; lack of caregiver responsiveness to the child; poverty. How do you think your child is developing? Do you have any concern? Consider parental concerns when observing the child's development Look For all infants less than two months; assess if the infant achieved the at birth development milestones 		All the important milestones for the current age group achieved	NO DEVELOPMENTAL DELAY	 Praise caregiver on milestones achieved Advice the care giver on the importance of responsive caregiving, ,talking to the child, reading, singing and play with the child on daily basis Encourage caregiver to exercise more challenging activities of the next age group Advise to continue with follow up consultations Share Key message for care giver

DEVELOPMENT MILESTONES:

At birth:

- Remains flexed in supine position
- Grasps with fingers and toe when touched on the palm or sole
- Prefers facial features (looks at faces)
- Suckles when touched on mouth with finger
- Follows light or moving object in line of vision and startle to sound

CHECK THE YOUNG INFANT'S IMMUNIZATION STATUS

IMMUNIZATION SCHEDULE: AGE VACCINE Ideally, the birth dose of HepB should be given within 24 hrs of birth. It can still be given in a. the first 14 days, since its effectiveness diminishes with the passage of time it is good to Birth BCG give it as early as possible. HepB - BD a OPV-0^b Do not Give OPV-0 to an infant who is more than 14 days old. Keep an interval of at least b. PCV-1 OPV-1 6 weeks Penta - 1 Rota –1 4 weeks between OPV-0 and OPV-1.

ASSESS OTHER PROBLEMS

COUNSEL THE MOTHER ABOUT HER OWN HEALTH — Refer to page 59

CHECK FOR MATERNAL DANGER SIGNS (Only for women presenting within 6 weeks of delivery).

Maternal danger signs:- Refer mother and baby urgently for proper care if any of the following is present:

- Excessive vaginal bleeding
- Foul smelling vaginal discharge
- Severe abdominal pain
- Fever
- Excessive tiredness or breathlessness
- Swelling of the hands and face
- Severe headache or blurred vision
- Convulsion or impaired consciousness

NEWBORN RESUSCITATION — follow HBB Action Plan

Clear Airway	 Clear the airway by wiping out the mouth with gauze or syringe bulb Suction the baby's mouth first then nose gently Reassess the baby's breathing 	
Position	 Place the baby on his/her back with the neck slightly extended 	
Ventilate	 Use baby bag and mask to ventilate at 40 breaths per minute Continue to ventilate until the baby breathes independently If the baby remains weak or is having irregular breathing after 20 minutes of resuscitation; refer urgently to hospital while continuing to resuscitate on the way If the baby has not responded (no breathing at all) after 20 minutes, stop resuscitation. 	
Monitor	 Keep the baby warm (skin-to-skin) Defer bathing for 24 hours after the baby is stable Breastfeed as soon as possible Watch for signs of a breathing problem; rapid, labored, or noisy breathing If breathing problem occurs, stimulate, give oxygen [if available], and refer 	Ba

Neck Hyperextended Neck Under extended

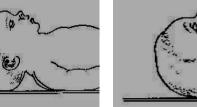
Incorrect: Bigger Mask



Bag & Mask Resuscitation



Incorrect Position



Incorrect: Smaller Mask

Correct Position

Neck slightly extended Correct: Proper Mask



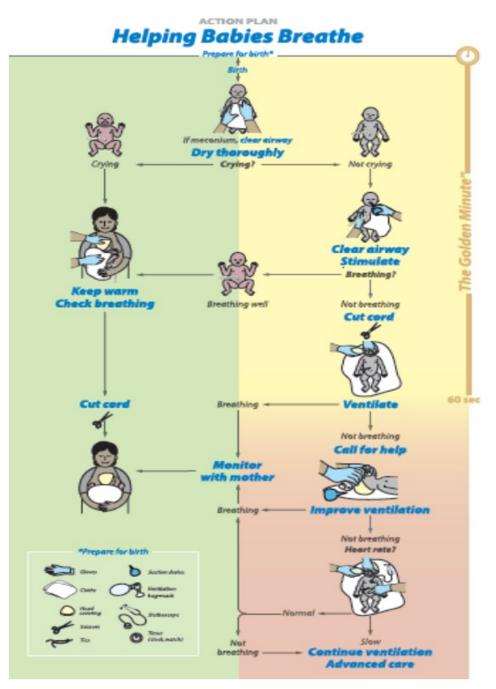


How to Ventilate

- Squeeze bag with 2 fingers or whole hand, 2-3 times
- Observe for rise of chest
- IF CHEST IS NOT RISING:
 - · Reposition the head
 - Check mask seal
- Squeeze bag harder with whole hand
- Once good seal and chest rising, ventilate at 40 squeezes per minute
- Observe the chest while ventilating:
 - Is it moving with the ventilation?
 - Is baby breathing spontaneously?



• The action sequence applied for a baby who does not cry at birth should be mastered by all learners. Within The Golden Minutes the baby should be crying, breathing well or receive help to breathe.



CARE OF THE LOW BIRTH WEIGHT (LBW) NEWBORN

Tips to help a mother breastfeed her LBW baby

- Express a few drops of milk on the bay's lip to help the baby start nursing.
- Give the baby short rests during a breastfeed; feeding is hard work for LBW baby.
- If the baby coughs, gags, or spits up when starting to breastfeed, the milk may be letting down too fast for the little baby. Teach the mother to take the baby off the breast if this happens.
- Hold the baby against her chest until the baby can breathe well again then put it back to the breast after the let-down of milk has passed.
- If the LBW baby does not have enough energy to suck for long or a strong enough sucking reflex: Teach the mother to express breast milk and feed it by a cup.

Expressing breast milk (can take 20-30 minutes or longer in the beginning)

- Wash hands with soap and water.
- Prepare a cleaned and boiled cup or container with a wide opening.
- Sit comfortably and lean slightly toward the container. Hold the breast in a "C-hold".
- Gently massage and pat the breast from all directions.
- Press thumb and fingers toward the chest wall, role thumb forward as if taking a thumb print so that milk is expressed from all areas of the breast.
- Express the milk from one breast for at least 3-4 minutes until the flow slows and shift to the other breast.
- Alternate between breasts 5 or 6 times, for at least 20 to 30 minutes.

TIPS for storing and using stored breast milk

Fresh breast milk has the highest quality. If the breast milk must be saved, advise the mother and family to:

- Use either a glass or hard plastic container with a large opening and a tight lid to store breast milk.
- Use a container and lid which have been boiled for 10 minutes.
- If the mother is literate, teach her to write the time and date the milk was expressed (or morning, afternoon, evening) on the container before storing.
- Store the milk in a refrigerator for 24 hours or in a cool place for 8 hours.

Show families how to cup feed

- Hold the baby closely sitting a little upright as shown in the picture.
- Hold a small cup half-filled to the babies lower lip.
- When the baby becomes awake and opens mouth, keep the cup at the baby's lips letting the baby take the milk.
- Give the baby time to swallow and rest between sips.
- When the baby takes enough and refuses put to the shoulder & burp her/him by rubbing the back.
- Measure baby's intake over 24 hours rather than at each feeding.
- Allow the infant to take the milk himself. DO NOT pour the milk into the infant's mouth.



Technique for expressing breast milk and cup feeding of young infants

KEEP THE YOUNG INFANT WARM

Warm the young infant using Immediate skin-to-skin contact

REASSESS after 1 hour:

- Check for signs of Very Severe Disease and
- Measure axillary temperature by placing the thermometer in the axilla for 5 minutes (or feel for low body temperature).
 If any signs of Very Severe Disease OR temperature still below 36.5°C (or feels cold to touch)
- Refer URGENTLY to hospital after giving pre-referral treatments for Very Severe Disease.
- If no sign of Very Severe Disease AND temperature 36.5°C or more (or is not cold to touch):
 - Advise how to keep the infant warm at home
 - Advise mother to give home care
 - Advise mother when to return immediately
- If skin-to-skin contact is not possible:
 - Clothe the baby in 3-4 layers, cover head with a cap and body with a blanket; hold baby close to caregiver's body, OR
 - Place the baby under overhead radiant warmer, if available.
- (Avoid direct heat from a room heater and use of hot water rubber bottle or hot brick to warm the baby because of danger of accidental burns).

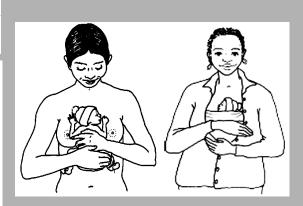
Keep the young infant warm on the way to the hospital

- ► By skin-to-skin contact, OR
- Clothe the baby in 3-4 layers, cover head with a cap and body with a blanket or Gabi
- Hold baby close to caregiver's body

Kangaroo Mother Care — KMC, for babies below 2,000gms

Provide privacy to the mother. If mother is not available, prolonged skin-to-skin contact may be provided by the father or any other adult.

- Counsel the mother on the importance and how to do KMC
- Check if the mother can correctly provide KMC
- Request the mother to sit or recline comfortably
- Undress the baby gently, except for cap, nappy and socks
- Place the baby prone on mother's chest in an upright and extended posture, between her breasts, in skin-to-skin contact; turn baby's head to one side to keep airways clear. Keep the baby in this position for 24 hrs every day.
- Cover the baby with mother's blouse, 'or gown; wrap the baby-mother together with an added blanket or "Gabi"
- Breastfeed the baby every two hours
- Keep the room warm







	AMOXICILLIN Give two times daily for 5 days (Local BI), for 7 days (Pneumonia)					
AGE or WEIGHT	DISPERSIBLE TABLET (DT) 250 mg	DISPERSIBLE TABLET (DT) 125mg	SYRUP 125 mg in 5 ml			
Birth up to 1 month (< 4kg)	1/2	1	5 ml			
1 month up to 2 months (4-6kg)	1	2	10 ml			

> Give First Dose of Intramuscular Antibiotics - Ampicillin and Gentamicin

- For Critical Ilness and Very Severe Disease
- Give first dose of Ampicillin and Gentamicin intramuscular

	Ampicillin	GENTAMICIN				
Weight	Dose: 50 mg per kg to vial of 250mg Add 1.3 ml sterile water = 250mg/1.5 ml	Strength 10mg/ml (20mg in 2ml)	Strength 40mg/ml (80mg in 2ml)			
1.5 - <2.5 kg	0.8 ml	0.8 ml	0.2 ml			
2.5 - <4 kg	1.2 ml	1.6 ml	0.4 ml			
4.0 - <6 kg	1.5 ml	2.4 ml	0.6 ml			

• Referral is the best option for a young infant classified with VERY SEVERE DISEASE.

• If referral is not possible, give Ampicillin /Benzyl Penicillin and Gentamicin for at least 7 days. Give Ampicillin/Benzyl Penicillin every 12 hours plus Gentamicin every 24 hours. If very preterm, Gentamicin every 48 hrs.

To Treat Diarrhoea, See TREAT THE CHILD Chart

Immunize Every Sick Young Infant, as Needed

Teach the Mother to Treat Local Infections at Home

- > Explain how the treatment is given.
- > Watch her as she does the first treatment in the clinic.
- Tell her to do the treatment twice daily. She should return to the clinic if the infection worsens.

To Treat Skin Pustules or Umbilical Infection

The mother should

- Wash hands
- Gently wash off pus and crusts with soap and water
- Dry the area
- Paint with full strength Gentian Violet (GV) (0.5%) twice daily for 5 days

To Treat Thrush (ulcers or white patches in mouth)

The mother should:

- Wash hands
- Wash mouth with clean soft cloth wrapped around the finger and wet with salt water
- Instill Nystatin 1 ml, 4 times a day or
- Paint the mouth with half-strength (0.25%) GV four times daily for 7 days
- Avoid feeding for 20 minutes after medication
- Wash hands

> Teach correct positioning and attachment for breastfeeding

- > Show the mother how to hold/position her infant
 - with the infant's head and body straight
 - facing her breast, with infant's nose opposite her nipple
 - with infant's body close to her body
 - supporting infant's whole body, not just neck and shoulders.
- > Show her how to help the infant to attach. She should:
 - touch her infant's lips with her nipple
 - wait until her infant's mouth is opening wide
 - move her infant quickly onto her breast, aiming the infant's lower lip well below the nipple.
- > Look for signs of good attachment and effective suckling. If the attachment or suckling is not good, try again.
- > Advise the mother to empty one breast before switching to the other so that the infant gets the nutrient-rich hind milk.

> Advise mother to give home care for the young infant

- 1. Food & Fluids Breastfeed frequently, as often and for as long as the infant wants, day or night, during sickness and health. More frequently during sickness
- 2. Keep the young infant warm at all times In cool weather, cover the infant's head and feet and dress the infant with extra clothing
- 3. When to Return advise mother to bring the young infant for follow up visit or immediately according to the tables below

Follow up visits

If the	infant has:	Return after:
• • • • •	LBW/PRETERM PNEUMONIA LOCAL BACTERIAL INFECTION JAUNDICE SOME DEHYDRATION FEEDING PROBLEM THRUSH	2 days
•	UNDERWEIGHT	14 days

 $\underline{\mathbf{NB}}\text{:}$ All newborns should be seen on day 1, 3, 7 and 6 weeks.

When to Return Immediately:

Return	immediately if the young infant has any of these signs:
•	Breastfeeding or drinking poorly
•	Vomiting after each feeding
•	Convulsion
•	Reduced activity
•	Fast or difficult breathing
•	Develops a fever or feels cold to touch
•	Blood in stool
•	Becomes sicker
•	Palms and soles appear vellow

FOLLOW-UP CARE FOR THE SICK YOUNG INFANT

> LOW BIRTH WEIGHT/ PRETERM,

Weekly follow-up for low birth weight

- Check for danger signs in the newborn
- Counsel and support optimal breastfeeding
- Follow-up of kangaroo mother care
- Follow-up of counseling given during previous visits
- Counsel mother/ family to protect baby from infection
- Immunize baby with HepB-BD, OPV & BCG if not given before

> PNEUMONIA,

After 2 days

- Reassess for Very Severe Disease
- Ask if the infant is improving or not

Treatment:

- If the infant becomes worse or any new sign of VERY SEVERE DISEASE appears while on treatment, refer urgently to hospital.
- If the infant is improving, continue giving oral amoxicillin twice daily until 7 days.
- Counsel the mother when to return immediately.

> LOCAL BACTERIAL INFECTION

After 2 days:

- Ask for new problems, if there is any do a full assessment.
- Look at the umbilicus. Is it red or draining pus? Does redness extend to the skin?
- Look at the skin pustules. Are there many or severe pustules?

Treatment:

- > If **pus or redness remains or is worse,** refer to hospital.
- If pus and redness are improved, tell the mother to continue giving the 5 days of antibiotic and continue treating the local infection at home.

> DIARRHOEA (Some Dehydration)

After 2 days:

- Ask for new problem, if there is any do a full assessment.
- Ask if the diarrhoea has stopped?

Treatment:

- If diarrhoea persists, Assess the young infant for diarrhoea and manage as per initial visit (see Assess the Young Infant for Diarrhoea chart).
- > If diarrhoea stopped-reinforce exclusive breastfeeding.

> JAUNDICE

After 2 days:

- · Ask for new problems, if there is any do a full assessment.
- Look for jaundice Are the palms and soles yellow?

Treatment:

- > If the palms and soles are yellow or age \geq 14 days. refer to hospital
- If palms and soles are not yellow and age ≤14 days, and jaundice has not decreased; advise on home care, when to return immediately and ask her to return for f/up in 2 days.
- If jaundice has started decreasing, reassure mother and ask her to continue home care. Ask her to return for f/up at 2 weeks of age. If jaundice continues beyond 2 weeks of age, refer to hospital.

FOLLOW-UP CARE FOR THE SICK YOUNG INFANT

> FEEDING PROBLEM

After 2 days:

- · Ask for new problems, if there is any do a full assessment.
- Reassess feeding. See " Check for Feeding Problem or Underweight" chart.
- · Ask about any feeding problems found on the initial visit.

Treatment:

- Counsel the mother about any new or continuing feeding problem. If you counsel the mother to make significant changes in feeding, ask her to bring the young infant back again.
- If the young infant is Underweight for age, ask the mother to return 14 days of this follow up visit. Continue follow-up until the infant is gaining weight well.

Exception:

• If you think that feeding will not improve, or if the young infant has lost weight, refer the child.

> UNDERWEIGHT IN YOUNG INFANT

After 14 days:

- · Ask for new problems, if there is any do a full assessment.
- Weigh the young infant and determine if the infant is still underweight.
- Reassess feeding. See "Check for Feeding Problem or underweight." above.

Treatment:

- > If the infant is *no longer underweight*, praise the mother and encourage her to continue.
- > If the infant is still underweight, but is feeding well; praise the mother. Ask her to have her infant weighed again within a month or when she returns for immunization.
- If the infant is still underweight and still has a feeding problem, counsel the mother about the feeding problem. Ask the mother to return again in 14 days (or when she returns for immunization, if this is within 2 weeks). Continue to see the young infant every few weeks until the infant is feeding well and gaining weight regularly or is no longer underweight.

Exception:

If you think that feeding will not improve, or if the young infant has lost weight, refer to hospital.

≻ THRUSH

After 2 days

- Ask for new problems, if there is any do a full assessment.
- · Look for ulcers or white patches in the mouth (thrush).
- Reassess feeding. See "Check for feeding problem or underweight" above.

Treatment:

- > If *thrush is worse*, check that treatment is being given correctly.
- ► The infant has problems with attachment or suckling, refer to hospital.
- If thrush is the same or better, and if the infant is feeding well, continue Nystatin or half-strength gentian violet (0.25%) for a total of 7 days.

FOLLOW-UP CARE FOR THE SICK YOUNG INFANT

Routine Postnatal Follow Up Care

6 –24 hours evaluation/visit

- Measure and record weight & temperature
- Check for any newborn danger signs listed below
- Check for any danger signs in the mother (see page 13)
- Refer newborn & mother to hospital if any danger sign in the newborn or mother
- Classify by birth weight/GA (see Assess & Classify Chart) & counsel on extra care for the Low Birth Weight baby (pg.15 & 16)
- Give Vitamin K, OPV-0, HepB-BD & BCG if not given
- Counsel mother on optimal breastfeeding, & <u>teach ALL mothers</u> on proper positioning & attachment for breast feeding
- Counsel mother to keep the baby warm (delay bath after first 24 hrs, skin-to-skin care, proper wrapping & put a hat)
- Counsel on hygiene and good skin, eye and cord care
- Teach mother to identify neonatal danger signs & to seek care immediately
- Counsel the lactating mother to take at least 2 more variety meals than usual
- Advise on importance of postnatal visits on days 3 & 7
- Apply Chlorhexidine

Newborn danger signs

- Unable to feed or sucking poorly
- Repeated or persistent Vomiting
- Convulsions
- · Movement only when stimulated or no movement, even when stimulated
- Gasping or breathing < 30 per minute
- Fast breathing (>60/minute, counted 2 times), grunting or severe chest indrawing

3 & 7 days' visit

- Measure temperature; & weight (if no birth weight record)
- Check for any newborn danger signs listed below
- Check for any danger signs in the mother (see page 13)
- Refer newborn & mother to hospital if any danger sign in the newborn or mother
- Classify by birth weight/GA (see Assess & Classify Chart) & counsel on extra care for the Low Birth Weight baby (pg.15 & 16)
- Give OPV-0, HepB-BD & BCG if not given before
- Counsel mother on optimal breastfeeding, & <u>teach ALL</u> <u>mothers on proper positioning & attachment</u> for breast feeding
- Counsel mother to keep the baby warm (delay bath after first 24 hrs, skin-to-skin care, proper wrapping & put a hat)
- Counsel on hygiene and good skin, eye and cord care
- Teach mother to identify neonatal danger signs & to seek care immediately
- Counsel the lactating mother to take at least 2 more variety meals than usual
- Advise mother to return for next PNC follow up visit
- Counsel the mother to apply Chlorhexidine at home

6 weeks visit

- Check for danger signs in the newborn and mother
- Check for Feeding Problem or Underweight (see ASSESS & CLASSIFY Chart)
- Refer newborn & mother to hospital if any danger sign in the newborn or mother
- Give appropriate counseling based on the assessment for Feeding Problem or Underweight
- Give DPT1- HepB1-Hib1, OPV-1, PCV-1; Rota & BCG (if not given before)
- Follow-up advices given during previous visits
- Counsel mother to protect baby from infection & to continue immunization schedule
- Counsel mother on the need of family planning & eating 2 more extra meals
- Advise mother & baby to sleep under ITN (in malarious areas)

- Fever (hot to touch or axillary temperature ≥ 37.5°C)
- Hypothermia (cold to touch or axillary temperature <35.5°C)
- Severe jaundice (observed at <24 hrs or ≥ 14 days of age, or involving soles & palms)
- Pallor or bleeding from any site
- · Red swollen eyelids and pus discharge from the eyes
- Very small baby (<1,500 grams or <32 weeks gestational age)
- Any other serious newborn problem

ASSESS AND CLASSIFY THE SICK CHILD AGE 2 MONTHS UPTO 5 YEARS

ASSESS			CLASSIF	Y	IDENTIFY TREATMENT
ASK THE MOTHER WHAT THE CHILD - Determine if this is an initial or foll ► If follow-up visit, use the ► If initial visit, assess the of CHECK FOR GENERAL	ow-up visit for this problem. instructions on ' GIVE FOLLOW I child as follows:	JP CARE" chart.			
ASK:	LOOK:		SIGNS	CLASSIFY AS	TREATMENT (Urgent pre-referral treatments are in bold print)
 Is the child able to drink or breastfeed? Does the child vomit everything? Has the child had convulsions? 	 See if the child is lethar- gic or unconscious. Is the child convulsing now? 	URGENT ATTENTION ^{a, b}	 Unable to drink or breastfeed, OR Vomits everything, OR Had Convulsions, OR Lethargic, OR Unconscious, OR Convulsing now 	VERY SEVERE DISEASE	 Give diazepam if convulsing now Quickly complete the assessment Give appropriate pre-referral treatment immediately, based on other severe classifications Treat to prevent low blood sugar Keep the child warm Refer URGENTLY.

a. A child with any general danger sign needs urgent attention, complete the assessment quickly and give any pre-referral treatment immediately so referral is not delayed.

b. A child with no general danger sign can have other severe signs and severe (pink) classifications, so complete your assessment carefully. If you get no general danger sign at this stage, you shouldn't assume that the child is healthy or without sickness. Continue your assessment carefully.

ASSESS AND CLASSIFY THE SICK CHILD AGE 2 MONTHS UPTO 5 YEARS

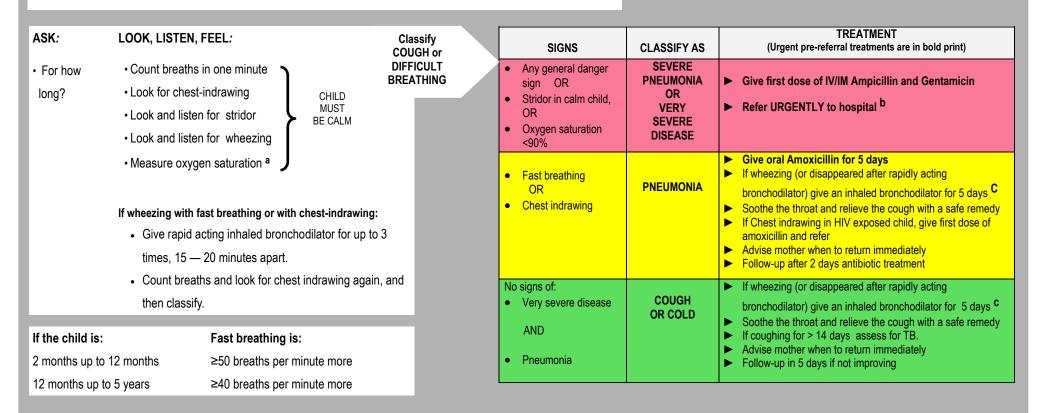
ASSESS

CLASSIFY

IDENTIFY TREATMENT

THEN ASK ABOUT MAIN SYMPTOMS:

Does the child have cough or difficult breathing? IF YES,



a. Pulse oximeters are used to measure oxygen saturation.

b. If referral is not possible, manage the child as described in "Where referral isn't possible" part of this chart booklet or as in Ethiopian pocket book for hospital care for children.

c. If inhaled bronchodilator is not available, oral salbutamol may be tried but not recommended for treatment of severe acute wheeze. In addition, refer Page 72 for how to treat wheeze.

Does the cl	hild have Diarrhoe	a?		SIGNS	CLASSIFY AS	TREATMENT (Urgent pre-referral treatments are in bold print)
 <i>IF YES, ASK</i> For how long? Is there blood in the stool? 	 LOOK AND FEEL: Look at the child's general condition Is the child: 	Cla	For Dehydration	 Two of the following signs: Lethargic or unconscious Sunken eyes Not able to drink or drinking poorly Skin pinch goes back very slowly 	SEVERE DEHYDRATION	 If child has no other severe classification: Give fluid for severe dehydration (Plan C). OR If child also has another severe classification: Refer URGENTLY to hospital with mother giving frequent sips of ORS on the way. Advise the mother to continue breastfeeding. If child is 2 years or older, and there is cholera in your area, give antibiotic for cholera.
	 Lethargic or unconscious? Restless and irritable? Look for sunken eyes. Offer the child fluid. Is the child: 		RHOEA	Two of the following signs: • Restless, irritable • Sunken eyes • Drinks eagerly, thirsty • Skin pinch goes back slowly	Some Dehydration	 Give fluid, Zinc supplements and food for some dehydration (Plan B) If child also has a severe classification: Refer URGENTLY to hospital with mother giving frequent sips of ORS on the way. Advise the mother to continue breastfeeding. Advise mother when to return immediately. Follow-up in 5 days if not improving.
	- Not able to drink or drinking poorly? - Drinking eagerly, thirsty?			 Not enough signs to classify as some or severe dehydration 	NO DEHYDRATION	 Give fluid, Zinc supplements and food to treat diarrhoea at home (Plan A) Advise mother when to return immediately Follow-up in 5 days if not improving
	 Pinch the skin of the abdomen. Does it go back? 		and if diarrhoea 14 days or more	Dehydration present	SEVERE PERSISTENT DIARRHOEA	 Treat dehydration before referral unless the child has another severe classification Give Vitamin A Refer to hospital
	- Very slowly (> 2 seconds)? - Slowly?		and if	No dehydration	PERSISTENT DIARRHOEA	 Advise the mother on feeding recommendation for a child who has PERSISTENT DIARRHOEA Give Vitamin A, therapeutic dose Give Zinc for 10 days Advise mother when to return immediately Follow-up in 5 days
			and if blood in stool	Blood in the stool	DYSENTERY	 Treat for 3 days with Ciprofloxacin Advise mother when to return immediately Follow-up after 2 days of antibiotic treatment

				SIGNS	CLASSIFY	TREATMENT
						(Urgent pre-referral treatments are in bold print)
 IF YES: Decide Malaria Risk: High/Low of If " no" malaria risk, then ask: Has the child traveled outside the during the previous 30 days? 		Do blood film, If malaria risk is High/Low or history of travel to a malarious area, AND there is no Severe	Malaria Risk (High/Low)	 Any general danger sign, OR Stiff neck, OR Bulging fontanels (< 1 yr) 	VERY SEVERE FEBRILE DISEASE	 Give first dose IV/IM Artesunate for severe malaria Give first dose of IV/IM Ampicillin and Gentamicin Treat the child to prevent low blood sugar Give Paracetamol in health facility for high fever (≥38.5°C) Refer URGENTLY to hospital
 If yes has he been to a malarion THEN ASK: For how long has the child 	LOOK • Look c	Classification ^b AND FEEL: r feel for stiff neck.		 Positive blood film, OR If BF not available, fever with no other obvious cause 		 Treat with Artemeter-Lumefantrine (AL) and Primaquine for P. falcip. mixed or no confirmatory test done Treat with Chloroquine and Primaquine for confirmed P. vivax Give Paracetamol in health facility for high fever (38.5°C or above) Give an appropriate antibiotic for identified bacterial cause of fever Advise mother when to return immediately
had fever?If more than 7 days, has fever been present every day?Has the child had measles within the last 3 months?	 (< 1) Look f cause: Look f Look f Ge 	r feel for bulging fontanels year of age) or any obvious other bacterial s of fever ^c or runny nose. or signs of MEASLES neralized rash, AND one of these:	Other obviou present	 Negative blood film, OR Other obvious cause of fever present 	FEVER: N0 MALARIA	 Follow-up after 2 days of antimalarial if fever persists or if on Primaquine R If fever is present every day for more than 7 days, refer for assessment Give one dose of Paracetamol in health facility for high fever (≥38.5°C Give an appropriate antibiotic for identified bacterial cause of fever Advise mother when to return immediately Follow-up after 2 days of antibiotics if fever persists If fever is present every day for more than 7 days, refer for assessment
If the child has measles now OR within the last 3 months	 Look f Are Are 	gh, runny nose or red eyes. or mouth ulcers: they deep or extensive? they not deep or extensive? or pus draining from the eye.	No Malaria Risk and No travel to Malarious area	 Any general danger sign, OR Stiff neck, OR Bulging fontanels (< 1 year of age) 	SEVERE FEBRILE DISEASE	 Give first dose of IV/IM Ampicillin and Gentamicin Treat the child to prevent low blood sugar Give Paracetamol in health facility for high fever (≥38.5°C) Refer URGENTLY to hospital
		or clouding of the cornea.		Any fever	FEVER:	 Give one dose of Paracetamol in health facility for high fever (≥38.5° Give an appropriate antibiotic for identified bacterial cause of fever Advise mother when to return immediately Follow-up after 2 days of medication if fever persists If fever is present every day for more than 7 days refer for assessment
IF MEASL	ES now oi	within the last 3 months, Cl	lassify	 Any general danger sign, OR Clouding of cornea, or Deep or extensive mouth ulcers, or Other complications d 	SEVERE COMPLICATEE MEASLES	 Give Vitamin A, first dose Give first dose of IV/IM Ampicillin and Gentamicin If clouding of the cornea or pus draining from the eye, apply Tetracycline eye ointment Refer URGENTLY to hospital
These temperatures are based on axil HCs & hospitals should use BF micros case you use RDT result, interpret the Look for local tenderness; pharingitis o tender skin or boils; lower abdominal p	scopy for ma RDT test re or tonsilitis, c	laria confirmation. RDTs are meai sult like BF result during classifica ral sores; refusal to use a limb; ho	nt for HPs. But if in the rare ation.	Mouth ulcers (not deep or	MEASLES WITH EYE OR MOUTH COMPLICATION	
Other important complication of measl	es-pneumor	nia, stridor, diarrhea, ear infection,	and acute malnutrition-	 Measles now or within the last 3 months 	MEASLES	 Give Vitamin A, therapeutic dose Advise mother when to return immediately

Does the Child Have an Ear Problem?

IF YES, ASK:

LOOK, AND FEEL:

Is there ear pain?

- Is there ear discharge? If yes, for how long?
- Look for pus draining from the ear

Classify EAR

 Feel for tender swelling behind the ear

SIGNS	CLASSIFY AS	TREATMENT (Urgent pre-referral treatments are in bold print)
• Tender swelling behind the	MACTOIDITIC	► Give first dose of Ceftriaxone IV/IM OR
ear	MASTOIDITIS	Ampicillin and Gentamicin IV/IM
		 Give first dose of Paracetamol for pain
		Refer URGENTLY to hospital
• Ear pain,		► Give Amoxicillin for 5 days
ORPus is seen draining from the	ACUTE EAR	Give Paracetamol for pain
ear and discharge is reported		Dry the ear by wicking
for less than 14 days		► Follow-up in 5 days
Pus is seen draining from the	CHRONIC	Dry the ear by wicking
ear and discharge is reported for 14 days or more	EAR INFECTION	Treat with topical Quinolone eardrops for 2
		weeks
		► Follow-up in 5 days
No ear pain and	NO EAR	No additional treatment
 No pus seen draining from the ear 	INFECTION	

CHECK FOR ANEMIA

LOOK

- Look for palmar pallor, is it;
 - Severe palmar pallor?
 - Some palmar pallor?
 - No palmar pallor?
- If some or severe pallor and

child \geq 6 months ^a, do blood test and measure Haemoglobin (Hb) or Haematocrit (Hct) ^b, c, d

Classify	SIGNS	CLASSIFY AS	TREATMENT (Urgent pre-referral treatments are in bold print)
ANEMIA	 Hb < 7gm/dL, OR Hct < 21%, OR Severe palmar pallor 	SEVERE ANEMIA	Refer URGENTLY to hospital
	 Hb 7— <11 gm/dL, OR Hct 21 — <33%, OR Some palmar pallor 	ANEMIA	 Assess the child's feeding and counsel the mother on feeding according to the FOOD box on the COUNSEL THE MOTHER chart Give Iron ^e Do blood film for malaria, if malaria risk is high or has travel history to malarious area in last 30 days. Give Mebendazole or Albendazole, if the child is ≥ 1 year old and has not had a dose in the previous six months Advise mother when to return immediately Follow-up in 14 days
	 Hb ≥ 11gm/dL, OR Hct ≥ 33%, OR No palmar pallor 	NO ANEMIA	 No additional treatment Counsel the mother on feeding recommendation

a. For <6 months old infants, use palmar pallor only for classifying anemia; don't use Hb/Hct; because there is no WHO 's standardized cut off point for < 6 Months

- b. If child has severe pallor and other severe classification, don't delay the referral for measuring Hb/Hct. But if child has severe pallor only, do Hb/Hct and confirm severe anemia before referral.
- c. If Hb/Hct measurement don't go together with palmar pallor, rely on the Hb/Hct to classify anemia of the child.
- d. In cases where both Hb and Hct are measured, and the two measurements don't go together for classification, again rely on Hb measurement to classify anemia.
- e. If child has SAM and is receiving RUTF, **DO NOT give** iron because there is already adequate amount of iron in RUTF. If Iron should be given to the child, it has to be started after 14 days of SAM/RUTF treatment.

CHECK FOR ACUTE MALNUTRTION, IN INFANTS < 6 MONTHS

LOOK AND FEEL

If child is < 6 months old:

- Look for pitting edema of both feet
- Measure weight, length and
 - determine Weight For Length (WFL)

SIGNS	CLASSIFY AS	TREATMENT
 WFL <-3Z score, OR Oedema of both feet 	SEVERE ACUTE MALNUTRITION	 If HF has stabilization center, admit to SC. If the HF don't have SC, Give first dose of Ampicillin and Gentamicin IM Treat the child to prevent Low Blood Sugar Advise mother on the need of referral Refer Urgently to Hospital
 WFL ≥ -3Z to < -2Z score, AND No oedema of both feet 	MODERATE ACUTE MALNUTRITION	 Assess feeding and advise the mother on feeding Assess for TB infection Follow up in 5 days if feeding problem Follow up in 30 days
 WFL ≥ -2Z score AND No oedema of both feet 	NO ACUTE MALNUTRITION	 Assess feeding and advise the mother on feeding Follow up in 5 days if feeding problem If no feeding problem-praise the mother

CHECK FOR ACUTE MALNUTRTION, IN CHILDREN 6 - 59 MONTHS

For children aged 6 months up to 5 years:	SIGNS	CLASSIFY AS	TREATMENT
 LOOK AND FEEL: Look for pitting oedema of both feet (+, ++, +++)^a Measure and determine WFL/H Z-score (< -3, -3 to -2, ≥ -2), Measure MUAC (<11.5cm, 11.5 to 12.5cm, ≥ 12.5cm)^b V If child has +/++ oedema, or WFL/H <-3Z or MUAC <11.5 cm; AND 	 WFL/H < -3Z or MUAC <11.5 cm or Oedema of both feet (+, ++), AND: Medical complications, or Failed Appetite test OR +++ Oedema OR Severe wasting with oedema (WFL/H < -3Z with oedema or MUAC <11.5 cm with oedema) 	COMPLICATED SEVERE ACUTE MALNUTRITION	 Admit to inpatient care (Stabilization Center) or Refer urgently to hospital Give 1st dose of Ampicillin and Gentamicin IM Treat the child to prevent low blood sugar Advise the mother to feed and keep the child warm Advise mother on the need of referral
m > No severe wasting with oedema ^c n - Look for any medical complications listed below: • Any General Danger Sign • Any severe classification • Pneumonia • Dehydration ^d • Persistent diarrhea • Dysentery • Measles [now or with eye/mouth complications] • Fever ≥ 38.5°C • Low body temperature (<35°C axillary)	 WFL/H < -3Z or MUAC <11.5 cm or oedema of both feet (+, ++) AND No medical complication, and Pass appetite test 	UNCOMPLICATED SEVERE ACUTE MALNUTRITION	 If OTP is available, admit child to OTP and follow standard OTP treatment and care, including: Give RUTF for 7 days, Give oral Amoxicillin for 5 days Counsel on how to feed RUTF to the child Advise when to return immediately Assess for TB infection Follow-up in 7 days If no OTP in the facility, refer child to OTP service If there is social problem at home, treat child as in patient
 Dermatosis +++ ^e J If child has +/++ oedema, or WFL/H <-3Z or MUAC <11.5 cm; AND No severe wasting with oedema ^b, AND No medical complication 	 WFL/H ≥ -3Z to < -2Z or MUAC 11.5 cm to <12.5 cm AND No oedema of both feet 	MODERATE ACUTE MALNUTRITION	 Admit or Refer to Supplementary Feeding Program and follow TSFP care protocol Asses for feeding and counsel the mother accordingly Assess for TB infection If feeding problem, follow up in 5 days Follow up in 30 days
a. Oedema grading: bilateral oedema below ankles (+); below the knees & the elbows (++); generalized oedema involving the upper arms & face (+++).	 WFL/H ≥ -2Z or MUAC ≥ 12.5 cm AND No oedema of both feet 	NO ACUTE MALNUTRITION	 Assess feeding and advise the mother on feeding Follow up in 5 days if feeding problem If no feeding problem-praise the mother

- b. If WFL/H and MUAC measurements are discordant, use the worse measurement for classification of the child.
- c. Child with WFH <-3 Z plus oedema, or with MUAC<11.5cm plus oedema.
- d. Diagnosis of dehydration in SAM is mainly by using patient's history rather

e. Dermatosis grading: few discolored or rough patches of skin (+); multiple patches on arms and/or legs (++); flaking skin, raw skin or fissures (openings in the skin) is grade +++ dermatosis.

No oedema of both feet

Does Child Need Feeding Assessment? IF Yes,

If child is < 2 years old, or has Anemia or MAM; AND Has no severe classification - Do feeding assessment.

Ask		SIGNS	CLASSIFY AS	TREATMENT
 Do you breastfeed your child? If Yes, How many times in 24 hours?times. Do you breastfeed during the night? Yes No Does the child take any other food or fluids? If Yes, What food or fluids? How much is given at each feed? How many times in 24 hours? times. What do you use to feed the child? CupBottleOther If on replacement milk: What replacement milk are you giving? How many times in 24 hours? times How much is given at each feed? How many times in 24 hours? times How much is given at each feed? If on replacement milk prepared? How are you cleaning the utensils? If Moderate Acute Malnutrition: How large are servings? Does the child receive his/her own serving? Yes Who feeds the child and how? During the illness, has the child's feeding changed (decreased)? 	Classify FEEDING	If any of the following signs: Infrequent breastfeeding in the day, or Not breastfeeding during the night, or Semi-solid food not introduced at 6 month, or Diluted milk or thin gruel is given, or Complimentary food not enriched, or Less amount of complimentary food, or Infrequent complimentary food, Bottle feeding, or Giving inappropriate replacement milk or Giving insufficient replacement feeds or Mother mixing breast milk and replacement feeds or Replacement milk prepared incorrectly or Child refuses to eat or finish servings, or Child shares meal with elders, or No active feeding of child, or During illness and after recovery, fluids and foods offered to child not increased During illness, breast feeding decreased or discontinued	FEEDING PROBLEM	 Advise mother on appropriate age specific feeding recommendations, Advise mother on recommendations about child's specific feeding problem Follow-up of feeding problem in 5 days
YesNo		No signs of FEEDING PROBLEM	NO FEEDING PROBLEM	 Praise and encourage the mother for feeding the infant well

CHECK FOR HIV EXPOSURE AND INFECTION, IN CHILDREN 2 - < 18 MONTHS

ASK:	Classify	SIGN	CLASSIFY	TREATMENT
 What is the HIV status of the mother? Positive Negative Unknown What is the HIV antibody test result of the sick child? Positive Negative Unknown 	for HIV Infection	Child DNA PCR positive	HIV INFECTED	 Give Cotrimoxazole prophylaxis Assess feeding and counsel Assess for TB infection (Refer page 36) Ensure mother is tested & enrolled in HIV care & treatment Advise on home care Refer/Link to ART clinic for ART initiation and other components of care Ensure child has appropriate follow up
 What is the DNA PCR test result of the sick child? * Positive Negative Unknown Is child on breastfeeding? Yes No If no, was child breastfed in the last 		 Mother positive, and child Antibody or DNA PCR negative, and breastfeeding OR Mother positive, and child antibody & DNA PCR unknown OR Child antibody positive 	HIV EXPOSED	 Give Co-trimoxazole prophylaxis Assess feeding and counsel Assess for TB infection (Refer page 36) If child DNA PCR is unknown, test as soon as possible Ensure both mother and baby are enrolled in mother- baby cohort follow up at ANC/PMTCT clinic Ensure provisions of other components of care
6 weeks? • Yes • No		 Mother and child not tested 	HIV STATUS UNKNOWN	 Counsel the mother for HIV testing for herself & the child Test the child if mother is not available (Eg orphan) Advise the mother to give home care Assess feeding and counsel
Note: If DNA PCR isn't available, AND child antibo AND two of the following are present (Oral thr pneumonia or Very Severe Disease); Conside nave "PRESUMPTIVE SEVERE HIV DISEAS And this child should be referred to ART clinic 'HIV INFECTED" child.	ush, Severe or this child to SE".	 Mother negative, OR Mother positive, and child DNA PCR negative, and not breastfeeding, OR Mother HIV status unknown, and child antibody negative 	HIV INFECTION UNLIKELY	 Advise on home care Assess feeding and counsel Advise on HIV prevention If mother HIV status is unknown, encourage mother to be tested

CHECK FOR HIV EXPOSURE AND INFECTION, IN CHILDREN 18 - 59 MONTHS

		SIGN	CLASSIFY	TREATMENT
 ASK: What is the HIV status of the mother? Positive Negative Unknown What is the HIV antibody test result of the sick child? Positive Negative Unknown Is child on breastfeeding? Yes No If no, was child breastfed in the last 6 weeks? Yes No 	Classify for HIV Infection	 Child antibody positive 	HIV INFECTED	 Consider Cotrimoxazole prophylaxis Assess feeding and counsel Advise on home care Refer/link to ART clinic for ARV initiation & other components of care Ensure mother is tested & enrolled in HIV care & treatment
		 Mother positive, AND Child antibody negative or unknown, and breastfeeding 	HIV EXPOSED	 Give Cotrimoxazole prophylaxis Assess feeding and counsel Assess for TB infection (Refer page 36) If child antibody test is unknown, test as soon as possible If child antibody test is negative, repeat 6 wks after complete cessation of breastfeeding Ensure both mother and baby are enrolled in mother-baby cohort follow up at ANC/PMTCT clinic Ensure provisions of other components of care
		 Mother and child not tested 	HIV STATUS UNKNOWN	 Counsel the mother for HIV testing for herself and the child Test the child if mother is not available (Eg orphan) Advise the mother to give home care Assess feeding and counsel
		 Mother negative and child not known 	HIV INFECTION UNLIKELY	 Advise on home care Assess feeding and counsel Advise on HIV prevention If possible, do HIV antibody test for the sick child
		Child antibody negative at least 6 weeks after complete cessation of breastfeeding	HIV UNINFECTED	 Advise on home care Assess feeding and counsel Advise on HIV prevention

CHECK THE CHILD FOR TUBERCULOSIS

				TREATMENT
Ask TB symptoms: Does child have:		SIGNS		
 > 14 days cough? ^a 	Classify	SIGNS	CLASSIFY AS	(Urgent pre-referral treatments are in bold print)
 > 14 days fever and/or night sweats? ^b 		 GeneXpert / AFB +ve ^f , OR 		
 contact history with known BC-PTB (Bacteriologically 				Advise mother on the need to start TB treatment to the
Confirmed Pulmonary TB) patient? C		 Chest X ray suggestive of TB ^g 		child
. ,,		OR		
Look and feel for TB signs: Does child have			TB	Advise mother to bring any other contacts to TB clinic
 loss of weight or failure to gain weight or MAM or SAM? 		 Contact history with BC-PTB 	DISEASE	Ensure that mother is escorted and linked to TB clinic,
 swelling or discharging wound in the neck or armpit? ^d 		patient AND		for initiation of TB treatment and follow up
		≥ 1 TB symptoms, AND		
If child has no contact nor symptom/sign, Classify as No TB		≥ 1 TB signs ^h , OR		
Infection (Green)				
		 Known HIV+ child, AND 		
If child has any of the above contact or symptoms or signs, do	o the	Contact history with BC-PTB		
following:		patient AND		
		≥ 1 TB symptoms or signs,		
Gene Xpert test for ^e				
 Sputum, collected from Gastric Aspiration (NG Tube) or 	r			Advise mother on the need for TB prevention treatment
 Sputum, collected from production or 		 Contact history with BC-PTB 	ТВ	Ensure that mother is escorted and linked to TB clinic,
 Sample, collected from other sites 		patient AND	INFECTION	
Chest X-ray, if available		No TB symptoms and signs		for TB prevention treatment and follow up.
 Provider-initiated HIV testing and counselling 				
		No Contact with known BC-PTB		► Continue and complete assessment and classification
		patient AND	NO TB	for other problems
		No TB signs/symptoms	INFECTION	

- a. Cough of any duration for HIV positives
- b. Fever >38°C that continues for greater than two weeks after common causes are excluded.
- c. Contact history with BC-PTB patient: a child in contact with a known newly diagnosed BC-PTB case (within the past one year) as a close contact or household member.
- d. The swelling and discharging wound in the neck or armpit staying for a duration of more than one month, and it should not be due to injury of any kind.
- e. If GeneXpert is not available in your facility, send/refer sample for Gene Xpert test. And in the mean time do AFB microscopy in your facility.
- f. Gene Xpert –ve or AFB –ve result don't rule out TB disease. But –ve result has to be documented and reported accordingly.
- g. X-ray is not commonly available in health centers and primary hospitals, but if it is available use it as one of the criteria for classification.
- h. If the child has Contact history with BC-PTB patient AND has Only one TB symptoms or a sign, continue and complete assessment and classification for other problems; And advise the mother to bring the child for follow-up after 2 weeks to be Re- checked for Tuberculosis Status

CHECK THE DEVELOPMENT OF CHILD, 2 - <24 MONTHS OLD

 Absence of one or more milestones for where the which is developing Absence of one or more milestones for where the milestones for where the service performance of the service performa	 If child has severe classification, don't do the asserted and Varien Ack abild's gurant as 	essment of development. Classify	SIGN	CLASSIFY AS	TREATMENT
DEVELOPMENT MILESTONES: At birth: • Remains flexed in supine position • Remains flexed in supine position • Creating synth fingers and be when touched on the pairn or sole • Prefers facial features (looks at faces) • Subsidies when touched on mouth with finger • Follows light or moving object in line of vision and startle to sound • Sources voted • Sources voted • Babbles with courced on wouth with finger • Colows bight or moving object in line of vision and startle to sound for anne • Sources voted • Sources voted • Book lock of where your speak to him/her (social smile) • Cool (vocalizes one wowel) • Reacts to sounds • Follows objects with nouth • Holds object with one hand • Link hand and walks with support 15 months • Follows objects with nouth and Looks for dropped objects • Babbles with wores (Akaaaa, hoou) • Points to low or dual and walks without support 16 months • Follows objects with nouth and Looks for dropped objects • Follows objects with nouth and Looks for dropped objects • Follows objects with nouth and Looks for dropped objects •	 Risk factors: Difficult birth or any neonatal admission, Prematurity or low HIV or exposure to HIV and Serious infection or illness. Environmental factors: Very young or elderly caregiver; ab responsiveness to the child; poverty. How do you think you child is developing? Do you have any coment Look Identify the milestones corresponding to the child's age. If the child's age is not on the CB, look at the milestone of earling if the child was born premature and is younger than 30 months of the child. For e.g; an 8 months old baby born at 7 month of a Invite caregiver to do simple actions to show if the child has respondent. 	Noping w birth weight, Malnutrition, Head circumference too large or too small, use of drugs or alcohol; signs of violence or neglect; lack of caregiver oncem? Consider parental concerns wen observing the child's develop- tier age. For eg. for an 8 months old child, use 6 months milestones. s, subtract the period that was left until normal birth from the current age oregnancy would be counted as 6 months old ached EACH milestone for her age. If the child is sleeping, shy or too	 milestones from current age group AND Absence of one or more Milestones from earlier age group, OR Regression of milestones 	DEVELOPMENTAL	 communication, Responsive caregiving activities to do at home Refer for psychomotor evaluation Screen for mothers health needs and risk Factors and other possible causes including Malnutrition, TB disease and hyperthyroidism Advise to continue with follow
 Smiles when you speak to him/her (social smile) Coos (vocalizes one vowel) Reacts to sounds Brings hand to mouth Follows objects with eves past midline Follows object with one hand Holds object with one hand Lifts head and chest when put on tummy Reacts to his/her name Babbles with vowels (Ahaaaa, hooou) Grasps & puts objects in mouth and Looks for dropped objects Rolls over 	 DEVELOPMENT MILESTONES: At birth: Remains flexed in supine position Grasps with fingers and toe when touched on the palm or sole Prefers facial features (looks at faces) Suckles when touched on mouth with finger Follows light or moving object in line of vision and startle to sound 2 months Smiles when you speak to him/her (social smile) Coos (vocalizes one vowel) Reacts to sounds Brings hand to mouth 4 months Follows objects with eyes past midline Responds with sounds when you speak and Laughs out loud Holds object with one hand Lifts head and chest when put on tummy 6 months Reacts to his/her name Babbles with vowels (Ahaaaa, hooou) Grasps & puts objects in mouth and Looks for dropped objects 	 9 months Plays peek a boo (uncover hidden objects) Babbles with consonants (mama, dada) Responds to sound of name Transfers object from one hand to the other Sits without support 12 months Points to objects 	 milestones from current age but has reached all milestones for earlier age, OR If there is risk factors, OR 	DEVELOPMENTAL	 achieved Counsel caregiver on play & communication, Responsive caregiving activities to do at home Advise to return for follow up in 30 days Screen for other possible causes including malnutrition,
		 person on request stand and walks with support 15 months Express need using gesture or sound Says/Names familiar object (5 words) Put objects into a container Stand and walk without support 18 months Points to two or more parts of the body Start to speak in jargons, knows 10 or more words Builds tower of 4 cubes or boxes Drinks from a cup 	for the current age group	DEVELOPMENTAL	 Praise caregiver on milestones achieved Advice the care giver on the importance of responsive caregiving, ,talking to the child, reading, singing and play with the child on daily basis Encourage caregiver to exercise more challenging activities of the next age group Advise to continue with follow up consultations Share Key message for care

CHECK THE DEVELOPMENT OF CHILD, 24 - <60 MONTHS OLD

 If child has severe classification, don't do 	the assessment of develop			
ment.	Classify	SIGN	CLASSIFY AS	TREATMENT
Ask and Verify: Ask child's current age	,	1		
 too large or too small, HIV or exposure to HIV Environmental factors: Very young or elderly or neglect; lack of caregiver responsiveness to the How do you think you child is developing? Do you ing the child's development Look Identify the milestones corresponding to the child's of the child's age is not on the CB, look at the miles months milestones. If the child was born premature and is younger that the child was born premature and was bor	aturity or low birth weight, Malnutrition, Head circumference and Serious infection or illness. aregiver; abuse of drugs or alcohol; signs of violence or he child; poverty. have any concern? Consider parental concerns wen observ-	 Absence of one or more milestones from current age group AND Absence of one or more Milestones from earlier age group, OR Regression of milestones signs 	CONFIRMED DEVELOPMENTAL DELAY	 Counsel caregiver on play & communication, Responsive caregiving activities to do at home Refer for psychomotor evaluation Screen for mothers health needs and risk Factors and other possible causes including Malnutrition, TB disease and hyperthyroidism Advise to continue with follow up consultations
 counted as 6 months old Invite caregiver to do simple actions to show if the sleeping, shy or too sick, ask the mother if the child If the child is not able to achieve one or more miles 	child has reached EACH milestone for her age. If the child is	Absence of one or more milestones from current age group	SUSPECTED DEVELOPMENTAL DELAY	 Praise caregiver on milestones achieved Counsel caregiver on play & communication, Responsive caregiving activities to do at home Advise to return for follow up in 30 days
 18 months Points to two or more parts of the body Start to speak in jargons, knows 10 or more 	 48 months Says 4 words in a sentence, Counts to 4, knows age and sex 			 Screen for other possible causes including malnutrition, TB disease
words Builds tower of 4 cubes or boxes Drinks from a cup Walks without support 24 months Points at 2 pictures on request Makes 2-word sentence Builds tower of 6 cubes or boxes Kicks a ball 36 months Plays with other children Says 3 words in a sentence	 Copies cross and square, identify longer of 2 lines Jumps with two feet Plays with many children, goes to toilet alone 59 months Names 4 colors Tells a simple story Copies triangle, Identify heavier of two weights Jumps with one foot Dresses and undresses 	All the important milestones for the current age group achieved	NO DEVELOPMENTAL DELAY	 Praise caregiver on milestones achieved Advice the care giver on the importance of responsive caregiving, ,talking to the child, reading, singing and play with the child on daily basis Encourage caregiver to exercise more challenging activities of the next age group Advise to continue with follow up consultations Share Key message for care giver

CHECK THE CHILD'S IMMUNIZATION AND VITAMIN A STATUS

	AGE	VACCINE
	Birth	HepB - BD ^a , BCG and OPV - 0
SCHEDULE:	6 weeks	Penta -1 ^b , PCV-1, Rota -1 and OPV - 1
	10 weeks	Penta -2, PCV-2, Rota –2 and OPV - 2
	14 weeks	Penta -3, PCV-3 , IPV and OPV - 3
		Measles 1 and Vitamin A ^c (if not given with in last 6 months)
	15 months	Measles 2 and Vitamin A (if not given with in last 6 months)

VITAMIN A SUPPLEMENTATION

If 6 months or older

- Check if child has received a dose of Vitamin A during the previous 6 months. If not, give Vitamin A supplementation every 6 months up to the age of 5 years.
- Record the dose on the child's card.

ROUTINE WORM TREATMENT

If 2 years or older

- Check if child has received Mebendazole or Albendazole during the previous 6 months. If not, give child Mebendazole or Albendazole every 6 months.
- \succ Record the dose on the child's card.

ASSESS OTHER PROBLEMS

COUNSEL THE MOTHER ABOUT HER OWN HEALTH ..refer page 61

MAKE SURE CHILD WITH ANY GENERAL DANGER SIGN IS REFERRED after first dose of an appropriate antibiotic and other urgent treatments. *Exception*: Rehydration of the child according to Plan C may resolve danger signs so that referral is no longer needed.

- a. Ideally, the birth dose of HepB should be given within 24 hrs of birth. It can still be given in the first 14 days, since its effectiveness diminishes with the passage of time it is good to give it as early as possible.
- b. Pentavalent vaccine is also called as DPT-HepB-Hib.
- c. Vitamin A can be given as supplement to the child starting at the age of 6 months old, with no need of waiting the 9 months scheduled vaccination.

TREAT

INSTRUCTIONS TO TEACH THE MOTHER

Follow the instructions below for every oral drug to be given at home. Also follow the instructions listed with each drug's dosage table.

- Determine the appropriate drugs and dosage for the child's weight or age.
- Tell the mother the reason for giving the drug to the child.
- Demonstrate how to measure a dose.
- Watch the mother practice measuring a dose by herself.
- Ask the mother to give the first dose to her child.
- Explain carefully how to give the drug, then label and package the drug.
- If more than one drug will be given, collect, count and package each drug separately.
- Explain that all oral drug tablets or syrups must be used to finish the course of treatment, even if the child gets better.
- Check the mother's understanding before she leaves the health facility.

Give an Appropriate Oral Antibiotic

 FOR PNEUMONIA, ACUTE EAR INFECTION OR VERY SEVERE DISEASE* FIRST LINE ANTIBIOTIC: Oral Amoxicillin

AGE OR	Give two	AMOXICILLIN** times daily for 05 days	
WEIGHT	250 mg Dispersible Tablet (DT)	125 mg Dispersible Tablet (DT)	250mg Syrup
2 months up to 12 months (4 - <10 kg)	1	2	5ml
12 months up to 3 years (10 - <14 kg)	2	4	10ml
3 years up to 5 years (14 - 19 kg)	3	6	15ml

* For severe pneumonia or very severe disease use oral Amoxicillin as pre-referral treatment if IV or IM Ampicillin and Gentamicin not available.

** Amoxicillin is the recommended first-line drug of choice in the treatment of pneumonia due to its efficacy and increasing high resistance to Cotrimoxazole.

Give an Appropriate Oral Antibiotic

CIPROFLOXACIN Give 15mg/kg two times daily for 03			
AGE	250 mg Tablet		500mg Tablet
Less than 6 months (< 8 Kg)	1/2		1/4
6 months up to 5 years (8-19 Kg)	1		1/2
First-Line Antibiotic for Cholera: A Second-Line Antibiotic for Cholera			
		≻ Gi	TETRACYCLIN ve four times daily for 3 days
		≻ Gi	
Second-Line Antibiotic for Cholera	AMOXICILLIN	≻ Gi	ve four times daily for 3 days
Second-Line Antibiotic for Cholera		> Gi	ve four times daily for 3 days

***Follow the latest national recommendation accordingly

Give Amoxicillin for	JTE MALNUTRITION : 5 days	AMOXICILLI Give 2 times daily for	
WEIGHT	SYRUP 125mg per 5 ml	DISPERSIBLE TABLET (DT) 250mg	DISPERSIBLE TABLET (DT) or CAPSULE 500mg
< 5 kg	5 ml	1/2	
5-10 Kg	10 ml	1	
10-20 kg	20 ml	2	1
20-35 kg		21/2	1½
>35 kg			2

Give Inhaled Salbutamol for Wheezing

USE OF A SPACER*

A spacer is a way of delivering the bronchodilator drugs effectively into the lungs. No child under 5 years should be given an inhaler without a spacer. A spacer works as well as a nebulizer if correctly used.

- From Salbutamol metered dose inhaler (100Ug/puff) give 2 puffs
- Repeat up to 3 times every 15 20 minutes before classifying pneumonia if wheezing with either fast breathing or chest indrawing.

Spacers can be made in the following way:

- Use a 500ml drink bottle or similar.
- Cut a hole in the bottle base in the same shape as the mouthpiece of the inhaler.
- This can be done using a sharp knife.
- Cut the bottle between the upper quarter and the lower 3/4 and disregard the upper quarter of the bottle.
- Cut a small V in the border of the large open part of the bottle to fit to the child's nose and be used as a mask.
- Flame the edge of the cut bottle with a candle or a lighter to soften it.
- In a small baby, a mask can be made by making a similar hole in a plastic (not polystyrene) cup.
- Alternatively commercial spacers can be used if available.

To use an inhaler with a spacer:

- Remove the inhaler cap. Shake the inhaler well.
- Insert mouthpiece of the inhaler through the hole in the bottle or plastic cup.
- The child should put the opening of the bottle into his/her mouth and breath in and out through the mouth.
- A carrier then presses down the inhaler and sprays into the bottle while the child continues to breath normally.
- Wait for three to four breaths and repeat.
- For younger children place the cup over the child's mouth and use as a spacer in the same way.

*If a spacer is being used for the first time, it should be primed by 4-5 extra puffs from the inhaler.

Give an Oral Antimalarial

- First line for P. falciparum Artemether-Lumefantrine (AL) + Primaquine (single dose)
- First line for mixed infections (falciparum + vivax malaria) Artemether-Lumefantrine (AL) + Primaquine (Radical cure dose or 14 days)
- First line for P. vivax CHLOROQUINE + Primaquine (14 days)
- Second line antimalarial: QUININE

Artemether-Lumefantrine (AL)

• Tablet containing 120 mg Artemether and 20 mg Lumefantrine.

Weight (kg)	Age	Number of tablets per dose twice daily for 3 days
<15	< 3 years	1 (Yellow tabs)
15-25	3 - 7 years	2 (Blue tabs)

Chloroquine

- Tablet 150mg base (250mg Salt); Syrup 50mg base in 5ml (80mg Salt per 5ml)
- A total dose of 25mg base per kg over 3 days
- (10mg base per kg on day 1 and 2 and, 5mg base per kg on day 3).

Weight (kg)	Age (month or year)	Day 1	Day 2	Day 3
5-7	<4 month	-	-	-
• •	Tablet	1/4	1/4	1/4
	Syrup	5 ml	5 ml	2.5 ml
7 – <11	4-11 month			
	Tablet	1/2	1/2	1/2
	Syrup	7.5 ml	7.5 ml	5 ml
11 – <15	1-<3 year			
	Tablet	1	1	1/2
	Syrup	12.5 ml	12.5 ml	7.5 ml
15 – 19	3-<5 year			
	Tablet	1	1	1
	Syrup	15 ml	15 ml	15 ml

Primaquine:

- Dose: 0.25 mg base/kg, daily
- Single dose for p falciparum; and 14 days (radical cure dose) for p vivax or mixed
- Don't give Primaquine for <6mths old infants, pregnant and breastfeeding mothers
- In radical cure dose, follow child for hemolysis (urine discoloration and anemia)

Weight (kg)	Age	7.5mg tablets
8 — 18	6mth - 5 years	1/2
19 — 24	5 – 8 years	1

Quinine:

• 8 mg base/kg, 3 times daily for 7 days

Weight	A .co	Oral tablets, dosage		
(kg)	Age	200 mg salt	300 mg salt	
4-<6	2 - 4 months	1⁄4		
6-<10	4 -12 months	1/3	1/4	
10-<12	1 - 2 years	1/2	1/3	
12-19	2 - 5 years	3⁄4	1/2	

	ophylaxis for HIV Expos	ed and Infected Infant/Ch	hild
 mother is no longer b For HIV INFECTED DO NOT GIVE COTF 		R 6 WEEKS OF AGE	as been definitely ruled out ar
Age	Syrup (40mg Trimethoprim + 200mg Sulphamethoxazole in 5 mls)	Paediatric tablet (20 mg Trimethoprim + 100mg Sulphamethoxazole)	Adult tablet (Single strength tablet) (80mg Trimethoprim + 400mg Sulphamethoxazole
< 6 months	2.5 ml	1 tablet	1/4 tablet
			½ tablet
6 months – < 6 years	5 ml	2 tablets	

Give Paracetamol for High Fever
(≥38.5°C) or ear pain
Give Paracetamol every 6 hours until high fever or ear pain is gone

PARACETAMOL Suppository (125mg) Suppository (250mg) AGE TABLET TABLET Syrup Syrup or WEIGHT (120mg/5ml) (100mg) (500mg) (250mg/5ml) 2 months up to 3 years (4 — <15kg) 1/4 5 ml 2.5 ml 1 1 3 years up to 5 years (15 -19 kg) 2 1/2 1/2 10 ml 5 ml 2 1

Give Vitamin A

♦ For PERSISTENT DIARRHOEA, SEVERE PERSISTENT DIARRHOEA,

- Give single dose on day 1 if child didn't get Vitamin A in the last one month.
- If child is on RUTF, don't give Vitamin A.
- ♦ For MEASLES, MEASLES with EYE/MOUTH complications, or SEVERE COMPLICATED MEASLES:
 - Give two doses on Day 1 and 2.
 - If child has Vitamin A deficiency eye signs, add a 3rd dose on Day 15.
- ♦ For SEVERE ACUTE MALNUTRITION:
 - Do not give Vitamin A to child with SAM in the OTP, as RUTF contains an adequate amount of Vitamin A.
 - If SAM and eye signs of Vitamin A deficiency (e.g., night blindness, Bitot's spots, corneal ulceration) Give three doses of Vit A on Day 1, 2 and 15, irrespective of the type of therapeutic food they are receiving.

• For Routine Vitamin A supplementation for children 6 months up to 5 years,

• Give one dose in health facility if the child has not received a dose within the last 6 months.

105		VITAMIN A CA	PSULES
AGE	200 000 IU	100 000 IU	50 000 IU
Up to 6 months		1/2 capsule	1 capsule
6 months up to 12 months	1/2 capsule	1 capsule	2 capsules
12 months up to 5 years	1 capsule	2 capsules	4 capsules

Sive Iron

• Give one dose daily for 14 days

AGE or WEIGHT	IRON TABLET Ferrous sulfate 300 mg (60 mg elemental iron)	IRON SYRUP Ferrous Fumarate 100 mg per 5 ml (20 gm elemental iron per ml)
2 months up to 4 months (4-<6 kg)		1.00 ml (15 drops)
4 months up to 12 months (6-<10 kg)		1.25 ml (20 drops)
12 months up to 3 years (10- <14 kg)	1/2 tablet	2.00 ml (30 drops)
3 years up to 5 years (14-19 kg)	½ tablet	2.5 ml (35 drops)

> Give Zinc for all children with diarrhoea

- Once daily for 10 days

AGE	DOSE (20 mg tablet)	
0-6 months	1/2 tablet	
6 months and above	1 tablet	

For infants, dissolve the Zinc tablet in a small amount (5 ml) of expressed breast milk, ORS, or clean water in a small spoon. Older children can swallow, chew or take it dissolved in a small amount of clean water.

Give Mebendazole or Albendazole

	Give a single dose if child is ≥ 2 years and didn't get within the previous 6 months					
Age	MebendazoleMebendazoleAlbendazoleAlbendazole500 mg tablet, orSyrup, 100mg/5ml400mg tabletSyrup,5 tablets of 100 mg100mg/5ml100mg/5ml					
2 - 5 years	1 tablet 5 tsp 1 tablet 4 tsp (500mg) (25ml) (20ml)					

TEACH THE MOTHER TO TREAT LOCAL INFECTIONS AT HOME

 INSTRUCTIONS TO TEACH THE MOTHER Follow the instructions below for every local treatment to be given at home. Explain to the mother what the treatment is and why it should be given. Describe the treatment steps listed in the appropriate box. Watch the mother as she does the first treatment in the clinic (except remedy for cough or sore throat). Tell her how often to do the treatment at home. If needed for treatment at home, give mother the tube of Tetracycline ointment or a small bottle of gentian violet. Check the mother's understanding before she leaves the clinic. 	 Dry the Ear by Wicking and Give Quinolone Eardrops (Ciprofloxacin, Norfloxacin, or Ofloxacin ear drops) Dry the ear at least 3 times daily, till discharge stops Roll clean absorbent cloth or soft, strong tissue paper into a wick Place the wick in the child's ear Remove the wick when wet Replace the wick with a clean one and repeat these steps until the ear is dry Instil Ciprofloxacin eardrops (2-3 drops) after dry wicking three times daily for two weeks
 Treat Eye Infection with Tetracycline Eye Ointment Clean both eyes 3 times daily. Wash hands. Ask child to close the eye. Use clean cloth and water to gently wipe away pus Then apply Tetracycline eye ointment in both eyes 3 times daily. Ask the child to look up Squirt a small amount of ointment on the inside of the lower lid. Wash hands again. Treat until redness is gone. Do not use other eye ointments or drops, or put anything else in the eye. 	 Treat Thrush with Nystatin or Gentian Violet (0.25%) Treat for thrush four times daily for 7 days Wash hands Wet a clean soft cloth with salt water and use it to wash the child's mouth Instill Nystatin 1 ml four times a day or paint with GV as above for 7 days Avoid feeding for 20 minutes after medication If breastfed, check mother's breasts for thrush. If present treat with Nystatin or GV Advise mother to wash breasts after feeds. If bottle fed advise change to cup If severe, recurrent or pharyngeal thrush consider HIV Give Paracetamol if needed for pain
 Treat Mouth Ulcers with Gentian Violet (0.25%) Treat for mouth ulcers two times daily Wash hands Wash the child's mouth with a clean soft cloth wrapped around the finger and wet with salt water Paint the mouth with 0.25% GV (dilute the 1% solution to 1:3 with water) Wash hands again Continue using GV for 48 hours after the ulcers have been cured Give Paracetamol if needed for pain 	 Soothe the Throat, Relieve the Cough with a Safe Remedy Safe remedies to recommend: Breast milk for exclusively breastfed infant. Home fluids such as tea with honey, fruit juices Harmful remedies to discourage: Cough syrups containing Diphenyl Hydramine and/or Codeine. Examples: Benylin with and without Codein, Berantin.

GIVE THESE TREATMENTS IN CLINIC ONLY

INSTRUCTIONS ON HOW TO GIVE TREATMENTS

- Explain to the mother why the drug is given.
- Determine the dose appropriate for the child's weight (or age).
- Use a sterile needle and sterile syringe. Measure the dose accurately.
- Give the drug as an intramuscular injection.
- If child cannot be referred, refer when referral is not possible part.

➢ Give an Intramuscular Antibiotic

FOR CHILDREN BEING REFERRED URGENTLY:

- For SEVERE PNEUMONIA, VERY SEVERE FEBRILE DISEASE or SEVERE COMPLICATED MEASLES - Give first dose of IV/IM Ampicillin & Gentamicin or
- For **MASTOIDITIS** Give IM Ceftriaxone or IM/IV Ampicillin & Gentamicin and refer child urgently to hospital,

AGE or WEIGHT	Ampicillin 500 mg vial Dose: 50 mg/kg (Add 2.1 ml of sterile water , to make 500mg/2.5 ml OR 200mg/ml solution).	Gentamicin 40mg/ml 2ml vial	Ceftriaxone Dose: 50 mg/kg (Add 9.6 ml sterile water to vial containing 1 gm = 10 ml at 100 mg/ml)
2 up to 4 months (4 – <6 kg)	1 ml	0.5 - 1.0 ml	2.5 ml
4 up to 12 months (6 – <10 kg)	2 ml	1.1-1.8 ml	4 ml
1 up to 3 years (10 – <15 kg)	3 ml	1.9 - 2.7 ml	6 ml
3 up to 5 years (15 – <19 kg)	5 ml	2.8 - 3.5 ml	8 ml

> Treat a Convulsing Child with Diazepam Rectally MANAGE THE AIRWAYS

- · Turn the child on his/her side to avoid aspiration
- Do not insert anything into the mouth
- If the child is blue, open the mouth and make sure the airway is clear
- If necessary, remove secretions from the mouth by inserting a catheter via the nose.

GIVE DIAZEPAM RECTALLY

- Draw up the dose from an intravenous preparation of Diazepam into a small syringe, then **REMOVE THE NEEDLE.**
- Insert approximately 5 cm of a nasogastric tube into the rectum.
- Inject the Diazepam solution into the nasogastric tube and flush it with 2 3 ml of water at room temperature.
- Give 0.5mg/kg Diazepam injection solution per rectum using a small syringe without a needle (like a tuberculin syringe) or using a catheter.
- If **High Fever** (temperature 40°C or more), **lower the fever**. Sponge the child with room temperature water.

	DIAZEPAM RECTALLY
AGE or WEIGHT	10 mg/2 ml Solution, Dose 0.5 mg/kg
2 months up to 6 months (5 - <7 kg)	0.5ml
6 months up to 12months (7 - <10 kg)	1ml
12 months up to 3 years (10 - <14 kg)	1.5ml
3 years up to 5 years (14-19 kg)	2.0ml

> Treat the Child to Prevent Low Blood Sugar

- If the child is able to breastfeed:
 - · Ask the mother to breastfeed the child.
- · If the child is not able to breastfeed but is able to swallow
 - · Give expressed breast milk or a breast milk substitute.
 - If neither of these is available, give sugar water.
 - Give 30-50 ml of milk or sugar water before departure.
 - To make sugar water: Dissolve 4 level teaspoons of sugar (20 grams) in a 200ml cup of clean water.
- If the child is not able to swallow:
 - · Give 50 ml of milk or sugar water by nasogastric tube.

GIVE THESE TREATMENTS IN CLINIC ONLY

PARENTERAL ARTESUNATE:

- First line treatment for VERY SEVERE FEBRILE DISEASE (only for High/Low malaria risk areas)
- Give Artesunate 2.4 mg/kg preferably IV, or IM (alternative) on admission (time = 0), then at 12 h and 24 h, then once a day for 5-7 days. Infuse slowly for intravenous administration (3-4 ml per minute)
- For children below 20kg of weight, give 3mg/kg per dose.
- After a minimum of 24 hours of parenteral Artesunate treatment, and as soon as patient is able to take tablets, complete the treatment with full dose of oral Artemether-Lumefantrine (AL).

	DOSES OF PARENTERAL ARTESUNATE			
AGE or WEIGHT	To prepare IV infusion of 10 mg/ml, reconstitute 60mg Artesunate powder with 1 ml of 5% sodium bicarbonate solution, then shake 2-3 minutes, then add 5 ml of 5% glucose or normal saline	To prepare IM of 20 mg/ml, reconstitute 60mg Artesunate powder with 1 ml of 5% sodium bicarbonate solution, then shake 2- 3 minutes, then add 2 ml of 5% glucose or normal saline		
2 - 4 months (5 – 6 kg)	1.25 ml	0.6ml		
4 - 12 months (6 – 10 kg)	2 .5ml	1.25ml		
12 - 24 months (10 – 12kg)	3 ml	1.5 ml		
2 - 3 years (12 – 14 kg)	4.0 ml	2ml		
3 - 5 years (14 – 19kg)	4.5 ml	2.25 ml		
19 - 22 kg	6ml	3ml		

Artesunate rectal suppository:

- Pre-referral for VERY SEVERE FEBRILE DISEASE (only for high/Low malaria risk areas).
- Pre-referral single dose for children below 6 years of age (10mg/kg per dose).

Weight (kg)	Age	Artesunate (mg)	Regimen (single dose)
5–9	2–13 months	50	One 50-mg suppository
9–20	13–43 months	100	One 100-mg suppository
20–30	43–60 months	200	Two 100-mg suppository

NB:-Hold the buttocks together for 10 min to ensure retention of the rectal Artesunate. If the Artesunate is expelled from the rectum within 30 min of insertion, a second suppository should be inserted.

Artemether IM:

- Alternative pre-referral drug, where Artesunate is not available.
- Dose 3.2 mg/kg IM

Quinine:

• For VERY SEVERE FEBRILE DISEASE (only for High/Low malaria risk areas), if Artesunate and Artemether is not available.

FOR CHILDREN BEING REFERRED :

- Check which Quinine formulation is available in your clinic.
- Give first dose of IM Quinine and refer child urgently to hospital.
- Advise mother to keep child lying down on his/her way to the hospital

IF REFERRAL IS NOT POSSIBLE:

- Give 1st dose of IM Quinine Loading dose of 20mg/kg IM (divided into 2 sites, anterior thigh). The child should remain lying down for one hour.
- Repeat the Quinine injection at dose of 10mg/kg, every 8 hours until the child is able to take an oral antimalarial.
- After 48 hours of parenteral therapy, reduce the maintenance dose to 5-7mg/kg every 8 hours. It is unusual to continue Quinine injections for more than 4-5 days.

AGE or WEIGHT	INTRAMUSCULAR QUININE		
	150mg/ml* (in 2 ml ampoules)	300 mg/ml* (in 2 ml ampoules)	
2 months up to 4 months (4 – 6 kg)	0.4 ml	0.2 ml	
4 months up to 12 months (6 – 10 kg)	0.6 ml	0.3 ml	
12 months up to 2 years (10 – 12kg)	0.8 ml	0.4 ml	
2 years up to 3 years (12 – 14 kg)	1.0 ml	0.5 ml	
3 years up to 5 years (14 – 19kg)	1.2 ml	0.6 ml	

* Quinine salt

<u>NB</u>: If possible, for intramuscular use, Quinine should be diluted in sterile Normal Saline to a concentration of 60mg/ml.

GIVE EXTRA FLUIDS FOR DIARRHOEA AND CONTINUE FEEDING (See FOOD advice on COUNSEL THE MOTHER chart)

> Plan A: Treat Diarrhoea at Home

Counsel the mother on the 4 Rules of Home Treatment: Give Extra Fluids, Give Zinc Supplements, Continue Feeding, When to Return

1. GIVE EXTRA FLUIDS (as much as the child will take)

> TELL THE MOTHER:

- Breastfeed frequently and for longer at each feed.
- If the child is exclusively breastfed, give ORS in addition to breast milk.
- If child is not exclusively breastfed (≥ 6 months old), give one or more of the following: ORS solution, food-based fluids (such as soup, rice water and yoghurt drinks), or clean water.

It is especially important to give ORS at home when:

- The child has been treated with Plan B or Plan C during this visit.
- The child cannot return to a clinic if the diarrhoea gets worse.

➤ TEACH THE MOTHER HOW TO MIX AND GIVE ORS.

GIVE THE MOTHER 2 PACKETS OF ORS TO USE AT HOME.

> SHOW THE MOTHER HOW MUCH FLUID TO GIVE IN ADDITION TO THE USUAL FLUID IN-TAKE 10 ml/kg

Up to 2 years	50 to 100 ml after each loose stool
2 years or more	100 to 200 ml after each loose stool

Tell the mother to:

- Give frequent small sips from a cup.

- If the child vomits, wait 10 minutes. Then continue, but more slowly.
- Continue giving extra fluid until the diarrhoea stops.

2. GIVE ZINC SUPPLEMENTS :

> TELL THE MOTHER HOW MUCH ZINC TO GIVE:

0-6 months-6 months or more - 1/2 tablet for 10 days

> SHOW THE MOTHER HOW TO GIVE ZINC SUPPLEMENTS

Infants- dissolve tablet in a small amount of expressed breast milk, ORS or clean water in a cup Older children- tablets can be chewed or dissolved in a small amount of clean water in a cup

3. CONTINUE FEEDING 4. WHEN TO RETURN

See COUNSEL THE MOTHER chart

> Plan B: Treat Some Dehydration with ORS

Give in clinic recommended amount of ORS over 4-hour period

> DETERMINE AMOUNT OF ORS TO GIVE DURING FIRST 4 HOURS

AGE	Up to 4 months	4 - 12 months	12 mo - 2 years	2 - 5 years
Weight in kg	<6 kg	6-10kg	10-12 kg	12-19 kg
ORS in ml	200-400	400-700	700-900	900-1400
ORS in coffee cups (70ml)	3-6	6-10	10-13	13-20

* Use the child's age only when you do not know the weight. The approximate amount of ORS required (in ml) can also be calculated by multiplying the child's weight (in kg) times 75

If the child wants more ORS than shown, give more.
For infants under 6 months who are not breastfed, also give 100-200 ml clean water during this period.

> SHOW THE MOTHER HOW TO GIVE ORS SOLUTION:

- Give frequent small sips from a cup.
- If the child vomits, wait 10 minutes. Then continue, but more slowly.
- Continue breastfeeding whenever the child wants.

➤ AFTER 4 HOURS:

- Reassess the child and classify the child for dehydration.
- · Select the appropriate plan to continue treatment.
- Begin feeding the child in clinic.

▶ IF THE MOTHER MUST LEAVE BEFORE COMPLETING TREATMENT:

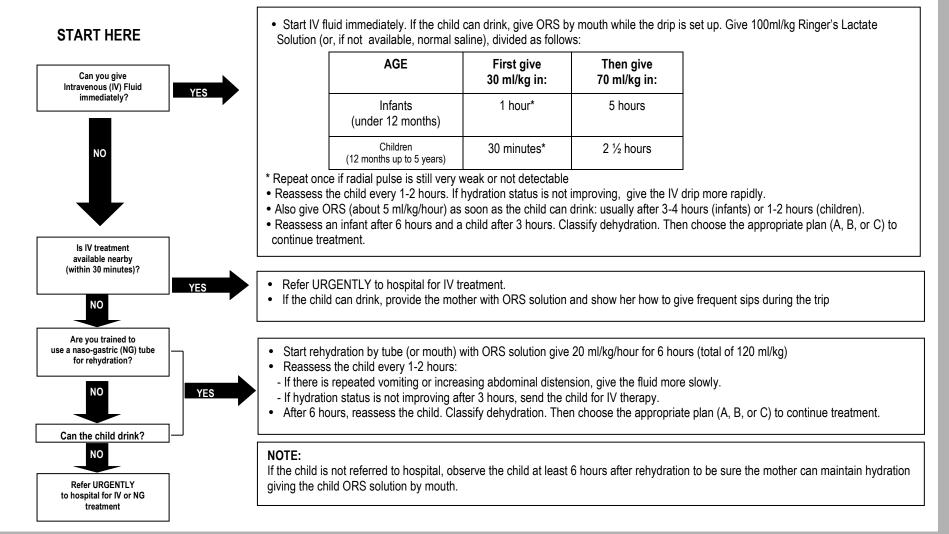
- Show her how to prepare ORS solution at home.
- . Show her how much ORS to give to finish 4-hour treatment at home.
- Give her enough ORS packets to complete rehydration. Also give her 2 packets as recommended in plan A.
- Explain the 4 Rules of Home Treatment:

GIVE EXTRA FLUID
 GIVE ZINC
 CONTINUE FEEDING
 WHEN TO RETURN

See Plan A for recommended fluid and See COUNSEL THE MOTHER chart

GIVE EXTRA FLUID FOR DIARHOEA AND CONTINUE FEEDING (See FOOD advice on COUNSEL THE MOTHER chart)

Plan C: Treat Severe Dehydration Quickly > FOLLOW THE ARROWS. IF ANSWER IS "YES", GO ACROSS. IF "NO" GO DOWN.



COUNSEL

FEEDING RECOMMENDATIONS

Feeding Recommendations FOR ALL CHILDREN during Sickness and Health and including HIV Exposed Children on ARV Prophylaxis

6 up to 9 months

Newborn, birth up to 1 week



- Immediately after birth, put your . baby in skin to skin contact with you.
- ٠ Allow your baby to take the breast within the first hour. Give your baby colostrum, the first vellowish, thick milk. It protects the baby from many Illnesses.
- Breastfeed day and night, as often • as your baby wants, at least 8 times In 24 hours. Frequent feeding produces more milk.
- If your baby is small (low birth weight), feed at least every 2 to 3 hours. Wake the baby for feeding after 3 hours, if baby does not wake self.
- DO NOT give other foods or fluids. Breast milk is all your baby needs. This is especially important for infants of HIV positive mothers. Mixed feeding increases the risk of HIV mother-to-child transmission when compared to exclusive breastfeeding.

Feeding recommendations for a child with UNCOMPLICATED SEVERE ACUTE MALNUTRITION

- · If still breastfeeding, give more frequent, longer breastfeeds, day and night
- Always give breast milk before RUTF (Ready to Use Therapeutic Food) •
- Feed the child RUTF until cured
- Do not give other food than RUTF except breast milk .
- Offer plenty of clean water to drink with RUTF
- Give the RUTF only to the severely malnourished child

1 week up to 6 months



- Breastfeed as often as the least 8 times in 24 hours.
- Feed your child only breast milk for the first 6 months, not even giving water.
- · Empty one breast before switching to the other for your baby to get the most nutritious hind milk.
- During illness and for at least up to 2 weeks after the illness increase the frequency of breastfeeding to recover faster.
- Do not give other foods or fluids including water.
- Expose child to sunshine for 15 to 20 minutes daily starting within 2 weeks of age

- Continue breast feeding.
- child wants, day and night, at Start complementary foods at 6 months of age.
 - Give adequate servings of freshly prepared and enriched; porridge made of cereal and legume mixes, shiro fitfiit, merek fitfit, mashed potatoes and carrot, mashed gommen, eggs and fruits.
 - Enrich the food by adding some oil or butter every time; give also animal foods (meat, liver, fish, eggs), legumes, vegetables (green leafy, carrots) and yellow fruits (orange, papaya, mangos)
 - Give these foods; 3 times/day plus 2 snacks/mekses, if breast feeding or taking other milk.
 - Give these foods; 5 times/day plus 2 snacks/mekses, if not breast feeding or taking other milk feeds.
 - Increase intake of food and fluids during illness, and give one additional meal of solid food for about 2 weeks after illness for fast recovery.
 - · Give Vitamin A supplements from the age of 6 months, 2 times per year.
 - Expose child to sunshine for 15 to 20 minutes daily.

Feeding Recommendations for a child with PERSISTENT DIARRHOEA

- If still breastfeeding, give more frequent, longer breastfeeds, day and night.
- If taking other milk:
 - Replace with increased breastfeeding OR
 - Replace with fermented milk products, such as yoghurt OR
 - Replace half the milk with nutrient-rich semisolid food.

9 up to 12 months

Breastfeed as often as your

Also give a variety of mashed

or finely chopped family food,

and vitamin A-rich fruits and

Give 1/2 cup at each meal

Give 3 to 4 meals each day.

Offer 1 or 2 snacks between

chewable items that the child

can hold. Let your child try to

eat the snack, but provide

meals. The child will eat if

child wants.

vegetables.

hungry.

(1 cup = 250 ml).

• For snacks, give small

help if needed.



- Give adequate servings of enriched family foods: porridge made of cereal and legume mixes, shiro, kik, merek fitfit, mashed potatoes and carrot, gommen, undiluted milk
- including animal source foods Add some extra butter or oil to child's food. Give also animal foods (meat, liver, fish, eggs), legumes, vegetables (green leafy, carrots) and yellow fruits (orange, papaya, mangos).
 - Give these foods at least 3-4 meals plus 2 • snacks/mekses if breast feeding or taking other milk
 - Give these foods; 5 times/day plus 2 snacks / mekses, if not breast feeding or taking other milk feeds
 - Babies who stopped breastfeeding at early • age should also get adequate other milk feeds besides complementary feeding.
 - Give your baby his/her own servings and actively feed the child.
 - Give freshly prepared food and use clean • utensils.
 - Increase intake of food and fluids during illness, and give one additional meal of solid food for about 2 weeks after illness for fast recovery.
 - Give Vitamin A supplements and Mebendazole/Albendazole every 6 months.







- Breastfeed as often as the child wants.
- and egg and fruits.

- freshly prepared enriched family foods, 3 meals a day. · Also, twice daily, give nutritious food between meals. such as:
 - egg, milk, fruits, kitta, dabo, ripe vellow fruits. Give your baby his/her own

· Give adequate servings of

2 Years and Older

- servings and actively feed the child.
- · Give freshly prepared food and use clean utensils
- Increase intake of food and fluids during illness, and give one additional meal of solid food for about 2 weeks after illness for fast recovery.
- Give Vitamin A supplements and Mebendazole/Albendazole every 6 months



COUNSEL THE MOTHER Feeding recommendations for non-breastfeeding child by any reason and HIV-infected mother who chose formula feeding after adequate counseling

 About A EED exclusively. In this service a functional or boiled, then cooled, full cream milk. Use milk with a cup, of a boat of the cooled, full cream milk of an and the cooled. Full cream milk of an and the cooled and the co	Up to 6 Months of Age	6 Months Up to 12 Months	12 Months Up to 2 Years	2 Years and Older
	 FORMULA FEED exclusively. Do not give any breast milk (For HIV Exposed infants). Other foods or fluids are not necessary. Prepare correct strength and amount just before use. Use milk within two 2 hrs. Discard any left over - a fridge can store formula for 24hrs. Cup feeding is safer than bottle feeding. Clean the cup and utensils with hot soapy water. Give the following amounts of formula 8 to 6 times per day: Age Approx. amount in months & times per day Oup to 1 60 ml x 8 1 up to 2 90 ml x 7 2 up to 4 120 ml x 6 4 up to 6 150 ml x 6 Expose child to sunshine for 15 to 20 minutes daily starting within 2 	 Give 1-2 cups (250 - 500 ml) of infant formula or boiled, then cooled, full cream milk. Give milk with a cup, not a bottle. Start complementary foods at 6 months of age. Start by giving 2-3 tablespoons of food 2 - 3 times a day. Gradually increase to 1/2 cup (1 cup = 250 ml) at each meal and to giving meals 3-4 times a day. Offer 1-2 snacks each day when the child seems hungry. For snacks give small chewable items that the child can hold. Let your child try to eat the snack, but provide help if needed. Give adequate servings of freshly prepared and <u>enriched;</u> porridge made of cereal and legume mixes, <i>shiro fitfiit, merek fitfit</i>, mashed potatoes and carrot, mashed gommen, eggs and fruits. <u>Enrich the food by adding some oil or butter every time;</u> give also animal foods (meat, liver, fish, eggs), legumes, vegetables (green leafy, carrots) and yellow fruits (orange, <i>papaya, mangos</i>). Give these foods; 3 times/day plus 2 snacks/<i>mekses</i>, if breast feeding or taking other milk feeds. Increase intake of food and fluids during illness, and give one additional meal of solid food for about 2 weeks after illness for fast recovery. Give Vitamin A supplements from the age of 6 months, 2 times per year. Expose child to sunshine for 15 	 Give 1-2 cups (250 - 500 ml) of boiled, then coled, full cream milk or infant formula. Give milk with a cup, not a bottle. Give 3/4 cup (1 cup = 250 ml) at each meal. Offer 1-2 snacks between meals. Continue to feed your child slowly, patiently. Encourage - but do not force - your child to eat. Give adequate servings of <u>enriched</u> family foods: porridge made of cereal and legume mixes, shiro, kik, merek fitfit, mashed potatoes and carrot, gommen, undiluted milk and egg and fruits. Add some extra butter or oil to child's food. Give also animal foods (meat, liver, fish, eggs), legumes, vegetables (green leafy, carrots) and yellow fruits (orange, <i>papaya, mangos</i>) Give these foods at least 3-4 meals plus 2 snacks/mekses if breast feeding or taking other milk. Give these foods; 5 times/day plus 2 snacks / mekses, if not breast feeding or taking other milk feeds. Babies who stopped breastfeeding at early age should also get adequate other milk feeds besides complementary feeding. Give freshly prepared food and use clean utensils. Increase intake of food and fluids during illness, and give one additional meal of solid food for about 2 weeks after illness for fast recovery. Give Vitamin A supplements and Mebendazole/Albendazole 	 Give adequate servings of freshly prepared <u>enriched</u> family foods, 3 meals a day. Also, twice daily, give nutritious food between meals, such as: Egg, milk, fruits, kitta, dabo, ripe yellow fruits. Give your baby his/her own servings and actively feed the child. Give freshly prepared food and use clean utensils. Increase intake of food and fluids during illness, and give one additional meal of solid food for about 2 weeks after illness for fast recovery. Give Vitamin A supplements and Mebendazole /

- Safe preparation of replacement feeding
- Infant formula: Always use a marked cup or glass and spoon to measure water and the scoop to measure the formula powder. Wash your hands before preparing a feed. Bring the water to boil and then let it cool. Keep it covered while it cools. Measure the formula powder into a marked cup or glass. Make the scoops level. Put in one scoop for every 25 ml of water. Add a small amount of the cooled boiled water and stir. Fill the cup or glass to the mark with the water. Stir well. Feed the infant using a cup. Wash the utensils.
- <u>Cow's milk</u>: Cow's or other animal milks are not suitable for infants below 6 months of age (even modified). For a child between 6 and 12 month of age: boil the milk and let it cool (even if pasteurized).
- Feed the baby using a cup.

Counsel the Mother About Feeding Problems

If the child is not being fed as described in the above recommendations, counsel the mother accordingly. In addition:





If the mother reports difficulty with breastfeeding, assess breastfeeding (See YOUNG INFANT chart.) As needed, show the mother correct positioning and attachment for breastfeeding.

▶ If the child is less than 6 months old and is taking other milk or foods:

- Build mother's confidence that she can produce all the breast milk that the child needs.
- Suggest giving more frequent, longer breastfeeds, day or night, and gradually reducing other milk or foods.

► If other milk needs to be continued, counsel the mother to:

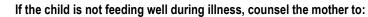
- Breastfeed as much as possible, including at night. (for infants who are not HIV exposed).
- Make sure that other milk is a locally appropriate breast milk substitute. (for infants who are not HIV exposed).
- Make sure other milk is correctly and hygienically prepared and given in adequate amounts.
- Finish prepared milk within an hour.
- In an HIV-Exposed infant with no hope of adequate breast milk production, stop breast feeding and continue with appropriate replacement milk.

If the child is being given diluted milk or gruel (muk):

- Do not dilute the milk
- Remind mother that thick foods which are dense in energy and nutrients are needed by infants and young children.

If the mother is using a bottle to feed the child:

- Recommend substituting a cup for bottle.
- Show the mother how to feed the child with a cup (senee or finjal)
- If the child is not being fed actively, counsel the mother to:
 - Sit with the child and encourage eating.
 - Give the child an adequate serving in a separate plate or bowl.



- Breastfeed more frequently and for longer if possible.
- Use soft, varied, appetizing, favorite foods to encourage the child to eat as much as possible, and offer frequent small feedings.
- Clear a blocked nose if it interferes with feeding.
- Expect that appetite will improve as child gets better.



Counsel the Mother About Feeding Problems (contd.)

If the child is not being fed as described in the above recommendations, counsel the mother accordingly. In addition:



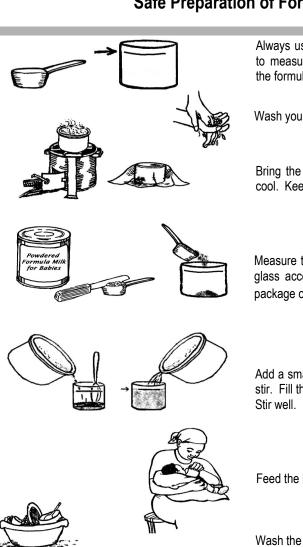
- ► If the mother is not giving Vitamin A-rich foods:
 - Encourage her to provide Vitamin A-rich foods frequently Cabbage (gommen), liver, carrot, egg.
- If the mother is not giving the young child a share of meat, chicken or fish when these are eaten by the family:
 Explain young child needs them and encourage her to provide whenever they are available in the household.
- ► If the child has poor appetite
- Plan small frequent meals.
- Give milk rather than other fluids except where there is diarrhoea with some dehydration.
- Give snacks between meals.
- Give high energy foods by adding oil or butter to the food.
- Check regularly for oral thrush or ulcers.

If the child has sore mouth or ulcers

- Give soft foods that will not burn the mouth, such as eggs, mashed potatoes, pumpkin or avocado.
- Avoid spicy, salty or acid foods.
- Chop foods finely.
- Give cold drinks or ice (if available) before feeding.
- ► Follow-up any feeding problem in 5 days.



COUNSEL THE MOTHER about Safe Preparation of Formula Feeding



Safe Preparation of Formula Milk

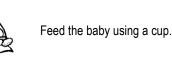
Always use a marked cup or glass and spoon to measure water and the scoop to measure the formula powder.

Wash your hands before preparing a feed.

Bring the water to the boil and then let it cool. Keep it covered while it cools.

Measure the formula powder into a marked cup or glass according to the preparation advise on the package of the formula milk.

Add a small amount of the cooled boiled water and stir. Fill the cup or glass to the mark with the water.



Wash the utensils.

Counsel the HIV Positive Mother Who Has Chosen Not to Breastfeed despite adequate counseling

The mother or caretaker should have received full counseling before making this decision

- Asses and ensure that the mother or caretaker has an adequate supply of commercial infant formula (at least for 12 months).
- Asses and ensure that the mother or caretaker knows how to prepare milk correctly & safely and has the facility and resources to do it.
- Demonstrate how to feed with a cup and spoon rather than a bottle.
- Make sure that the mother or caretaker understands that mixing breastfeeding with replacement feeding may increase the risk of HIV infection and should not be done.

COUNSEL THE MOTHER about Safe Preparation of Formula Feeding (contd...)

Appropriate amount of formula needed per day								
Age in months	Weight in Kg							
Birth	3	400ml	50	2	8 x 50ml			
2 weeks	3	400ml	50	2	8 x 50ml			
6 weeks	4	600ml	75	3	7 x 75ml			
10 weeks	5	750ml	125	5	6 x 125ml			
14 weeks	6.5	900ml	150	6	6 x 150ml			
4 months	7	1050ml	175	7	6 x 175ml			
5 months	8	1200ml	200	8	6 x 200ml			
6-12 months		Starting from 6 months of age the amount of formula may range from 700 to 800 ml in 24 hours.						

> How to feed a baby with a cup

- ► Hold the baby sitting upright or semi-upright on your lap.
- ► Hold a small cup of milk to the baby's lips.
 - tip the cup so the milk just touches the baby's lips.
 - the cup rests gently on the baby's lower lip and the edges of the cup and touch the outer part of the baby's upper lip.
 - the baby becomes alert and opens his/her mouth and eyes.
- Do not pour the milk into the baby's mouth. A young infant starts to take the milk with the tongue. An older/ bigger baby sucks the milk, spilling some of it.
- When the baby has had enough he closes his/her mouth and will not take any more. If the baby has not taken the required amount, wait and then offer the cup again or feed more frequently.

COUNSEL THE MOTHER about FLUIDS and WHEN TO RETURN

FLUID - Advise the mother to increase fluids during illness

FOR ANY SICK CHILD:

- ► Breastfeed more frequently and for longer at each feed.
- For children on complementary or replacement feeding increase fluid. For example, give soup, rice water, yoghurt drinks or clean water.

FOR CHILD WITH DIARRHOEA:

• Giving extra fluid can be lifesaving. Give fluid according to Plan A or Plan B on TREAT THE CHILD chart.

WHEN TO RETURN - Advise the mother when to return to the health worker

A. FOLLOW – UP VISIT - Advise the mother to come for follow-up at the earliest time listed for the child's problems.

B. Return Immediately - Advise the mother to come immediately if the
child has any of these signs.

FEVER NO MALARIA, if fever persists MEASLES WITH EYE OR MOUTH COMPLICATIONS SOME DEHYDRATION PERSISTENT DIARRHOEA ACUTE EAR INFECTION CHRONIC EAR INFECTION FEEDING PROBLEM ANY OTHER ILLNESS, if not improving MAM, if feeding problem UNCOMPLICATED SEVERE ACUTE MALNUTRITION 7 ANEMIA	s: Return for Follow-up in:
PERSISTENT DIARRHOEA ACUTE EAR INFECTION CHRONIC EAR INFECTION FEEDING PROBLEM ANY OTHER ILLNESS, if not improving MAM, if feeding problem UNCOMPLICATED SEVERE ACUTE MALNUTRITION 7 (ANEMIA	RY if fever persists fever persists 2 days O MALARIA, if fever persists
• ANEMIA 14	ENT DIARRHOEA AR INFECTION 5 days EAR INFECTION PROBLEM ER ILLNESS, if not improving
	LICATED SEVERE ACUTE MALNUTRITION 7 days
MODERATE ACUTE MALNUTRITION 30	14 days
	TE ACUTE MALNUTRITION 30 days

Any sick child	 Not able to drink or breastfeed Becomes sicker Develops a fever 	
If child has COUGH OR COLD, also return if:	Fast breathing Difficult breathing	
If child has diarrhoea, also return if:	Blood in stool Drinking poorly	

C. NEXT WELL-CHILD VISIT: - Advise mother when to return for:

Next immunization

• Next dose of Vitamin A and Mebendazole

Do growth monitoring at each well-child visit using growth charts.

COUNSEL THE MOTHER - ABOUT DEVELOPMENT OF YOUNG INFANT

baby.

Key Messages

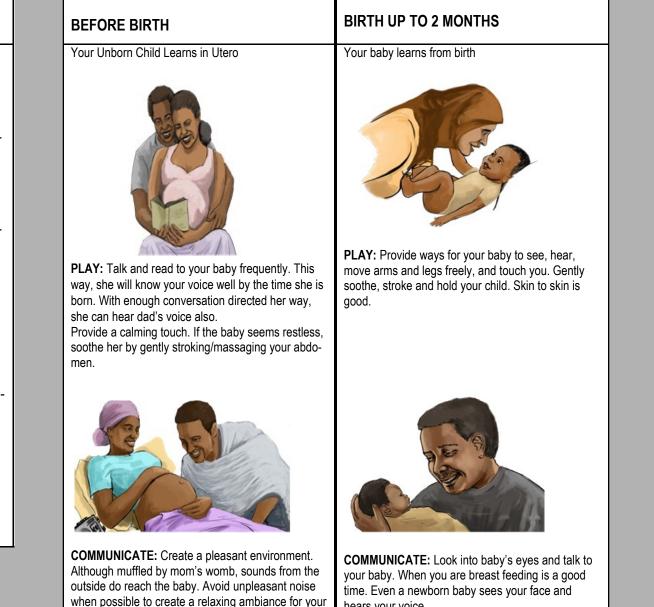
KEY MESSAGES TO SHARE WITH ALL CAREGIVERS

1. Children's brain develop fastest in the first 3 years of life. Letting children explore things around them and talking to them daily is what helps their brains develop.

2. Observe your children, try to understand them and respond to their signals, needs and interests. When your child does something /makes some gestures or sounds, respond to him/her, and as your child does something again you respond again. This is called responsive care, and is key to helping our children develop.

3. When we play and talk with children, we can help them develop their bodies, their language, their thinking, and build their relationships with others. Think how to make every moment count!

4. Daily routines and chores such as taking a bath, cooking, eating, washing and going to bed are great for playing and talking with young children.



hears your voice.

COUNSEL THE MOTHER - ABOUT DEVELOPMENT OF CHILD

2 MONTHS UP TO 6 MONTHS	6 MONTHS UP TO 9 MONTHS	9 MONTHS UP TO 12 MONTHS	12 MONTHS UP TO 2 YEARS	2 YEARS AND OLDER
PLAY: Provide ways for your child to see hear, feel, move freely and touch you. Slowly move colourful things for your child to see and reach for. Sample toys: shaker rattle, big ring on a string.	PLAY: Give your child clean, safe household things to handle, bang, and drop. Sample toys: containers with lids, metal pot and spoon.	PLAY: Hide a child's favorite toy under a cloth or box. See if the child can find it. Play peek-a-boo.	PLAY: Give your child things to stack up and to put into containers and take out. Sample toys: Nesting and stacking objects, container and clothes clips.	PLAY: Help your child count, name and compare things. Make simple toys for your child. Sample toys: objects of different colours and shapes to sort, stick or chalk board, puzzle.
COMMUNICATE: Smile and laugh with your child. Talk to your child. Get a conversation going by copying your child's sounds or gestures. • Give your child affection and s	COMMUNICATE: Respond to your child's sounds and interests. Call the child's name, and see your child respond.	COMMUNICATE: Tell your child the names of things and people. Show your child how to say things with hands, like "bye bye" Sample toy: doll with face.	COMMUNICATE: Ask your child simple questions. Respond to your child's attempts to talk. Show and talk about nature, pictures and things. • Praise your child for trying to	COMMUNICATE: Encourage your child to talk and answer your child's questions. Teach your child stories, songs and games. Talk about pictures or books. Sample toy: book with pictures.

COUNSEL THE MOTHER - ON DEVELOPMENTAL PROBLEMS









If the child is not being cared for as described in the above recommendations, counsel the Caregiver accordingly. In addition:

Discuss way to have the baby see, hear, feel and move appropriately for age.

If the child cannot be breast-fed, counsel the Caregiver to:

• Hold the child close when feeding, look at the child, and talk or sing to her/him.

If the Caregiver does not know what her/his child does to play or communicate:

- Inform her/him that children play and communicate from birth.
- Demonstrate for her/him how the child responds to activities.

If the Caregiver feels she/he does not have enough time to provide care for development, encourage her/him to:

- Combine care for development with other care for the child (feeding, bathing, dressing).
- Ask other family members to help provide care for development or help her/him with other tasks.

If the Caregiver has no toys for the child to play with, counsel the Caregiver to:

- Use any household objects that are clean and safe.
- Make simple toys.
- Play with the child, as the child will learn by playing with her/him and other people.

If the child is not responding, or seems "slow":

- Encourage the Caregiver to do extra care for development activities.
- Check to see whether the child is able to see and to hear.
- Refer the child with difficulties seeing or hearing to special services.
- Encourage the Caregiver and other family members to play and communicate with the child through touch and movement.

If the child is being raised by someone other than the mother, help the caretaker to:

- Identify at least one person who can care for the child regularly and give the child love and attention.
- Expect that, with love and special attention, the child can recover from the loss of a parent.

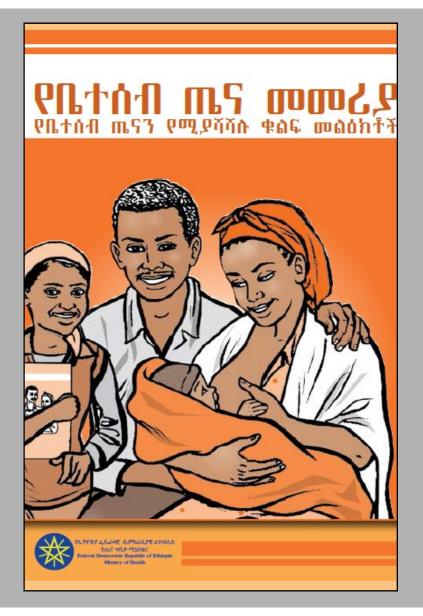
Advise the mother to return for follow-up:

• Assess as per the recommendations for care for development.

Counsel the Mother About Her Own Health

- If the mother is sick, provide care for her, or refer her for help.
- If she has a breast problem (such as engorgement, sore nipples, breast infection), advise her not to feed her baby from the affected breast, until it heals express and discard the milk from the affected breast. Provide clinical care for the mother or refer her for help.
- Advise her to eat well to keep up her own strength and health.
- If she is breastfeeding, advise her to eat 2 more varied extra meals a day to maintain her health and health of the baby.
- Advise a mother from malarious area for herself and all under five children to sleep under ITN to prevent malaria.
- Advise the mother to ensure that all family food is cooked using *iodized salt* so that family members remain healthy.
- Check the mother's immunization status and give her tetanus toxoid (TT) or tetanus-diphtheria toxoid (Td) vaccines if needed.
- Make sure she has access to:
 - Family planning
 - Counseling on STI and HIV prevention
 - Antenatal care if she is pregnant
- Encourage her to seek voluntary HIV counseling and testing.
- Reassure her that with regular follow-up, much can be done to prevent serious illness, and maintain her and the child's health.
- Emphasize good hygiene, and early treatment of illnesses.

COUNSEL THE MOTHER using the Family Health Card (FHC)



Counsel the mother on foods, fluids and when to return immediately using the Family Health Card (FHC: 2016GC or 2008 EC version): See the messages below:

- 1. About Food
 - Messages 27 29 & 31 43
 - And specifically about feeding during illness Messages: 44 & 45

2. About Fluids

► Message 46

3. When to return immediately

- ► Young infant See messages 25
- ► Child with Diarrhoea Messages 47
- ► Any sick child Messages 48

4. About Immunization:

Message 30

FOLLOW UP

GIVE FOLLOW-UP CARE

> Care for the child who returns for follow-up using all the boxes that match the child's previous classifications.

> If the child has any new problem, assess, classify and treat the new problem as on the ASSESS AND CLASSIFY chart.

See ASSESS & CLASSIFY chart

> PNEUMONIA

After 2 days:

Check the child for general danger signs. Assess the child for cough or difficult breathing.

Ask:

- Is the child breathing slower?
- Is there less fever?
- Is the child eating better?
- Is chest in drawing decreasing?

Treatment:

- If any general danger sign, Oxygen saturation <90% or stridor, refer URGENTLY to hospital.
- If chest indrawing and/or breathing rate, fever and eating are the same or worse, refer URGENTLY to hospital.
- If *breathing slower, no chest indrawing, less fever, and eating better*, complete the 5 days of antibiotic.

> PERSISTENT DIARRHOEA

After 5 days:

Ask:

- Has the diarrhoea stopped?
- How many loose stools is the child having per day?

Treatment:

- If the diarrhoea has not stopped (child is still having 3 or more loose stools per day), do a full reassessment of the child. Give any treatment needed. Then refer to hospital.
- If the diarrhoea has stopped (child having less than 3 loose stools per day), tell the mother to follow the usual feeding recommendations for the child's age.

IF ANY MORE FOLLOW-UP VISITS ARE NEEDED BASED ON THE INITIAL VISIT OR THIS VISIT, ADVISE THE MOTHER THE NEXT FOLLOW-UP VISIT

ALSO, ADVISE THE MOTHER WHEN TO RETURN IMMEDIATELY (SEE COUNSEL CHART)

> DYSENTERY

After 2 days:

Assess the child for diarrhoea. See ASSESS & CLASSIFY chart

Ask:

- Are there fewer stools?
- Is there less blood in the stool?
- Is there less fever?
- Is there less abdominal pain?
- Is the child eating better?

Treatment:

- > If the child is dehydrated, treat dehydration
- If number of stools, amount of blood in stools, fever, abdominal pain, or eating is the same or worse: REFER TO HOSPITAL

- If the child is < 12 months old, or was dehydrated on the first visit, or had measles within the last 3 months; refer the child to hospital.

- Otherwise, do stool microscopy, check amoebiasis; If positive treat with Metronidazole; if negative refer to hospital.

If fewer stools, less blood In the stools, less fever, less abdominal pain, and eating better, continue giving the same antibiotic until finished.

GIVE FOLLOW-UP CARE

> MALARIA (Low/High Malaria Risk)

If fever persists after 2 days:

- Do a full reassessment of the child. See ASSESS & CLASSIFY Chart
- Ask if the child has actually been taking his/her antimalarial.

Treatment:

- If the child has any general danger sign or stiff neck, treat as VERY SEVERE FEBRILE DISEASE.
- > If fever has been present every day for more than 7 days, refer for assessment.
- If child is on Primaquine radical cure dose, assess for signs of hemolysis (check urine color change, and do Hgb/HCT to check for Anemia). If signs of hemolysis, stop Primaquine.
- Suspect relapsing fever if other cases are occurring and the child has high fever, headache with chills and rigor, refer. If referral is not possible treat with Amoxicillin. Advise the mother to return again in 2 days
- > If the child has any cause of fever other than malaria, provide treatment.

If malaria is the only apparent cause of fever

· Repeat blood film:

- If positive and no improvement,
- If he hasn't taken the antimalarial properly, make sure that he takes it.
- If he took the antimalarial properly, give second line antimalarial drug. If no second line antimalarial refer.

➢ FEVER (No Malaria Risk)

If fever persists after 2 days:

Do a full reassessment of the child, See ASSESS & CLASSIFY Chart

Enquire thoroughly about travel to malarious areas

Assess for other causes of fever.

Treatment:

- If the child has any general danger sign or stiff neck, treat as VERY SEVERE FEBRILE DISEASE.
- > If there is travel history do BF.
 - If positive treat with first-line oral anti malarial and advise the mother to return again in 2 days if the fever persists.
 - If BF is negative manage for other cause of fever
- > If fever has been present every day for more than 7 days, refer for assessment.
- Suspect relapsing fever if other cases are occurring and the child has high fever with chills and headache, refer, if not possible treat with Amoxicillin. Advise the mother to return again in 2 days if fever persists

> FEVER-NO MALARIA (Low/High Malaria Risk)

If fever persists after 2 days:

- · Do a full reassessment of the child. See ASSESS & CLASSIFY Chart
- Assess for other causes of fever.

Treatment:

- If the child has any general danger sign or stiff neck, treat as VERY SEVERE FEBRILE DISEASE.
- > If fever has been present every day for more than 7 days, refer for assessment.
- Suspect relapsing fever if other cases are occurring and the child has high fever, headache with chills and rigor, refer, if not possible treat with Amoxicillin. Advise the mother to return again in 2 days.
- > If the child has any cause of fever other than malaria, provide treatment.

If malaria is the only apparent cause of fever:

- · Repeat BF:
 - If positive treat with the first -line oral antimalarial. Advise the mother to return again in 2 days if the fever persists.
 - · If negative manage for other causes of fever

➤ MEASLES WITH EYE OR MOUTH COMPLICATIONS

After 2 days:

Do a full reassessment of the child. See ASSESS & CLASSIFY Chart Look for red eyes and pus draining from the eyes. Look for mouth ulcers.

Treatment

- If the child has any general danger sign or clouding of cornea or deep or extensive mouth ulcer, treat as SEVERE COMPLICATED MEASLES
- If pus is draining from the eye, ask the mother to describe how she has treated the eye infection. If treatment has been correct, refer to hospital. If treatment has not been correct, teach mother correct treatment.
- > If the pus is gone but redness remains, continue the treatment.
- > If *no pus or redness*, stop the treatment.
- If mouth ulcers are the same or better, continue using half-strength gentian violet for a total of 5 days.

 GIVE FOLLOW-UP CARE EAR INFECTION After 5 days: Reassess for ear problem. See ASSESS & CLASSIFY chart Treatment: If there is tender swelling behind the ear refer URGENTLY to hospital. Acute ear infection: if ear pain or discharge persists, treat with same antibiotics for 5 more days. Continue wicking to dry the ear. Follow-up in 5 days. Chronic ear infection: Check that the mother is wicking the ear correctly. Encourage her to continue wicking and the topical Quinolone ear drops. If no ear pain or discharge, praise the mother for her careful treatment. If she has not yet finished the 5 days of antibiotic, tell her to use all of it before stopping. 	 > UNCOMPLICATED SEVERE MALNUTRITION After 7 days: - (Repeat every week) Ask about Feeding, if the child is finishing the weekly ration Diarrhoea, vomiting, fever or any other new complaint Check for - General danger signs, Medical complication, Temperature and Respiratory Rate Weight, weight loss, MUAC, oedema and anaemia Do appetite test Assess and classify if there is any new complaint (Use Assess & Classify Chart) Treatment: See/refer OTP Management in "Where Referral is not Possible" part of this chart booklet (Pages 80 to 83) 		
 FEEDING PROBLEM After 5 days: Reassess feeding. See question at the top of the COUNSEL chart. Ask about any feeding problems found on the initial visit. Treatment: Counsel about any new or continuing feeding problems. If you counsel the mother to make significant changes in feeding, ask her to bring the child back again. If the child is <2 months and Underweight or has Moderate Acute Malnutrition, ask the mother to return 14 days after the initial visit to measure the child's weight gain. If the child is 2 months to 5 years and has Moderate Acute Malnutrition or Underweight, ask the mother to return 30 days after the initial visit to measure the child's weight gain. 	 Moderate Acute Malnutrition (MAM) After 30 days: If child is admitted to TSFP, use and follow TSFP follow up protocol of National SAM Guideline Assess the child using the same measurement (WFH/L or MUAC) used on the initial visit: If WFH/L, weigh the child, measure height or length and determine WFH/L. If MUAC, measure using MUAC tape. Check the child for oedema of both feet. See questions at the top of the COUNSEL chart. Treatment: If feeding did not improve and/or child has lost weight, refer the child. Or if you think that feeding at improve prior to be abild 		
 ANEMIA After 14 days: Reassess feeding. See question at the top of the COUNSEL chart. Ask about any feeding problems found on the initial visit. Treatment: Give iron. Advise mother to return in 14 days for more iron. Continue giving iron every 14 days for 2 months. If the child has anemia (Hgb/palmar pallor) after 2 months, refer for assessment 	 not improve, refer the child. If the child no longer has MAM, praise the mother and encourage her to continue age appropriate feeding. If the child still has MAM, counsel the mother about any feeding problem found. Ask the mother to return again in one month. Continue to follow the child monthly until child is feeding well and gaining weight regularly longer has MAM. 		

WHERE REFERAL IS NOT POSSIBLE





WHERE REFERRAL IS NOT POSSIBLE

INTRODUCTION

The best possible treatment for a child with a very severe illness is usually at a hospital. Sometimes referral is not possible. Distances to a hospital might be too far; the hospital might not have adequate equipment or staff to care for the child; transportation might not be available. Sometimes parents refuse to take a child to a hospital, in spite of the health worker's effort to explain the need for referral.

If referral is not possible, you should do whatever you can to help the family care for the child. To help reduce deaths in severely ill children who cannot be referred, you may need to arrange to have the child stay in or near the health facility where he may be seen several times a day. If not possible, arrange for visits at home.

This Part of the chart booklet describes treatment to be given for specific severe disease classifications when the very sick young infant or child cannot be referred. It is divided into 2 sections: "Essential Care" and "Treatment Instructions on How to Give Specific Treatment for Severely III Children Who Cannot Be Referred".

To use this part of the chart booklet, first find the child's classifications and note the essential care required. Then refer to the respective treatment boxes on the chart booklet **and** the instructions in this section of the booklet. Because it may be difficult to treat a child at specific times during the day in clinic or at home, the Treatment Instructions include 6-hour, 8-hour and 12-hour dosing schedules for giving various drugs.

Remember that you must also give treatment for the non-severe classifications that you identified. These treatments should be marked on the Sick Child Recording Form or Registration Book. For example, if the child has SEVERE PNEUMONIA and MALARIA, you must treat the MALARIA *and* follow the guidelines below to treat the SEVERE PNEUMONIA.

Although only a well-equipped hospital with trained staff can provide optimal care for a child with a very severe illness, following these guidelines may reduce mortality in high risk children where referral is not possible.

SICK YOUNG INFANT BIRTH UP TO 2 MONTHS

Essential Care for CRITICAL ILLNESS or VERY SEVERE DISEASE,

This young infant may have severe pneumonia, sepsis or meningitis.

1. Give appropriate antibiotics as below -

- If CRITICAL ILLNESS, treat for 21 days total.
 - Give IM Ampicillin or Benzyl Penicillin or Ceftriaxone (twice daily) and IM Gentamicin (once daily)
 - Give the Gentamicin only for a maximum of 14 days.
 - When the infant's condition improve substantially, substitute oral Amoxicillin for IM Ampicillin or IM Benzyl Penicillin or IM Ceftriaxone. But continue IM Gentamicin.
- If VERY SEVERE DISEASE, give Oral Amoxicillin (twice daily) and IM Gentamicin (once daily) for at least 7 days.
- If fast breathing only in < 7days neonate, give Oral Amoxicillin for 7 days, with a necessary reassessment on 3rd day.
- If there is no response to the treatment after 48 hours, or if the infant's condition deteriorates, continue effort to URGENTLY refer to hospital.

2. Keep the young infant warm.

3. Manage fluids carefully -

The mother should breastfeed the infant frequently.

If the infant has difficulty breathing or is too sick to suckle,

- Help the mother express breast milk.
- Feed the expressed breast milk to the infant by dropper (if able to swallow) or by NG tube 6 times per day.
- Give 20 ml of breast milk per kilogram of body weight at each feed. Give a total of 120 ml/kg/day.
- If the mother is not able to express breast milk, prepare a breast milk substitute, as described in page 55 & 56 of the chart booklet.

4. Treat the child to prevent low blood sugar -

See Treatment instructions for treating low blood sugar, Page 46 & 78.

SICK CHILD AGE 2 MONTHS UP TO 5 YEARS

Essential Care for SEVERE PNEUMONIA OR VERY SEVERE DISEASE

- 1. Give antibiotic treatment It is essential that children with SEVERE PNEUMONIA OR VERY SEVERE DISEASE receive antibiotic treatment.
 - > If the child has a general danger sign but does not have the classification VERY SEVERE FEBRILE DISEASE:
 - Give IM Ampicillin and Gentamicin. Treat with IM Ampicillin and Gentamicin until the child has improved. Then continue with oral Amoxicillin and IM Gentamicin. Treat the child for 10 days total.
 - If IM Ampicillin and Gentamicin is not available, give IM Benzyl Penicillin. If neither IM Ampicillin and Gentamicin nor Benzyl Penicillin is available, give oral Amoxicillin (preferred), as specified on the TREAT chart. If the child vomits, repeat the dose.
 - In children less than 1 year of age with severe pneumonia and suspected symptomatic or confirmed HIV infection, consider PCP and treat accordingly. Give Cotrimoxazole at a dose of 20mg/kg/day of Trimethoprim divided into 4 doses (every 6 hrs) to be continued for 21 days. Add Prednisolone if in severe distress, at 2mg/kg/day in 2 divided doses for 7 days. Refer the infant to hospital as early as possible for appropriate management.
 - If the child also has the classification VERY SEVERE FEBRILE DISEASE, give benzyl penicillin and Chloramphenicol and antimalarials (for High or Low malaria risk areas) IV/ IM Artesunate or IV/IM Quinine as per the guide on page 47 & 73.
- 2. Give a bronchodilator If the child is wheezing give a bronchodilator if you have it (See Treat Wheezing, Page 72).*
- 3. Treat fever If the child has an axillary temperature of 38.5°C or above, give Paracetamol every 6 hours. This is especially important for children with pneumonia because fever increases consumption of oxygen.
- 4. Manage fluids carefully Children with SEVERE PNEUMONIA or VERY SEVERE DISEASE can become overloaded with fluids. If they can drink, give fluids by mouth. However, children with SEVERE PNEUMONIA or VERY SEVERE DISEASE often lose water during a respiratory infection, especially if there is fever. Therefore, give fluids, but give them cautiously. Encourage the mother to continue breastfeeding if the child is not in respiratory distress. If the child is too ill to breastfeed but can swallow, have the mother express milk into a cup and slowly feed the child the breast milk with a spoon.

Encourage the child to drink. If the child is not able to drink, either use a dropper to give the child fluid very slowly or drip fluid from a cup or a syringe without a needle. Avoid using a NG tube if the child is in respiratory distress. Wait until the next day if there is no other option.

^{*} Instructions are provided in Acute Respiratory Infection in Children: Case Management in Small Hospitals in Developing Countries, A manual for doctors and other senior health workers (1990) WHO/ARI/90.5.

Essential Care for SEVERE PNEUMONIA OR VERY SEVERE DISEASE

FLUIDS IN SEVERE PNEUMO-	AGE	Approximate amount of milk or	Total amount in 24 hours
NIA OR VERY SEVERE DIS-		formula to give	
EASE	Less than 12 months	5 ml/kg/hour	120 ml/kg
	12 months up to 5 years	3 - 4 ml/kg/hour	72 - 96 ml/kg

Avoid giving fluids intravenously unless the child is in shock. A child in shock has cold extremities, a weak and rapid pulse, and is lethargic.

- 5. Manage the airway Check if there is a blocked nose and clear it. A blocked nose can interfere with feeding. Use a plastic syringe (without needle) to gently suck any secretions from the nose. Dry or thick, sticky mucous can be loosened by wiping with a soft cloth moistened with salt water. Help the child to cough up secretions.
- 6. Keep the infant warm Small infants lose heat rapidly, especially when wet. Feel the infant's hands and feet. They should be warm. To maintain the body temperature, keep the sick infant dry and well wrapped. If possible, have the mother keep her infant next to her body, ideally between her breasts. A hat or bonnet will prevent heat loss from the head. If possible, keep the room warm.
- 7. Give Oxygen (if available) for children having any of the following signs of very severe respiratory distress
 - Grunting with every breath
 - Unable to feed due to respiratory distress
 - Convulsions, lethargy or unconscious
 - Oxygen saturation <90%

Give the oxygen through nasal prongs or a nasal catheter at a flow rate of 1-2 liters/minute until the child's condition improves.

TREAT WHEEZING

This annex describes how to treat a child 2 months up to 5 years with a first episode of wheezing, and how to assess a child who has recurrent wheezing. Use a bronchodilator to treat a child with a first episode of wheezing.

Before giving the bronchodilator, look to see if the child who is in "respiratory distress" (fast breathing <u>+</u> use of accessory muscles of breathing). A child in respiratory distress is uncomfortable, and is obviously not getting enough air into the lungs. The child may have trouble feeding or talking because he cannot get enough air. The condition can usually be recognized by simple observation. They are alert and are getting enough air into their lungs.

Steps to follow when treating a child with wheezing

Children with first episode of wheezing

- If in respiratory distress, Give a rapid acting bronchodilator and refer.
- If not in respiratory distress, Give oral Salbutamol.

Children with Recurrent Wheezing (Asthma)

- Give a rapid acting bronchodilator
- I Assess the child's condition 30 minutes later.
 - a. If Respiratory distress OR Any Danger sign, treat for SEVERE PNEUMONIA or VERY SEVERE DISEASE and Refer.
 - If NO Respiratory distress BUT Fast Breathing, then treat for Pneumonia and Give Oral Salbutamol.
 - c. If NO Respiratory distress AND No Fast Breathing, then treat for Cough Or Cold, and give Oral Salbutamol.

RAPID ACTING BRONCHODILATOR*

Nebulized Salbutamol,	0.5 ml Salbutamol plus 2.0 ml sterile			
5 mg/ml	water			
Subcutaneous Epinephrine (Adrenaline), 1:1000 solution	0.01 ml/kg body weight (maximum 0.3 ml)			

- Salbutamol 0.5 ml (2.5mg) diluted in 2.0 ml of sterile water per dose nebulization (vaporization) should be used.
- If Salbutamol is not available, use Epinephrine (Adrenaline), 0.01 ml/kg (up to a maximum of 0.3ml) of 1:1000 solution given subcutaneously with a 1 ml syringe. In the absence of a response to the first dose, the 2nd dose is given after 30 minutes and the 3rd dose after an hour.

ORAL SALBUTAMOL, three times daily for five days				
Age or Weight	2 mg/5ml, syrup	2 mg, tablet	4 mg tablet	
2 months up to 12 months (4-10 kg)	2.5 ml	1/2	1/4	
12 months up to 5 years) (10- 19 kg)	5.0 ml	1	1/2	

Essential Care for VERY SEVERE FEBRILE DISEASE

- 1. Give antibiotic and antimalarial treatment A child with VERY SEVERE FEBRILE DISEASE needs treatment for both meningitis and severe malaria (in high or low malaria risk areas). It is clinically difficult to differentiate between the two. Treat for both possibilities.
 - For meningitis, give both IV/IM Gentamicin and Ampicillin/Benzyl Penicillin. It is preferable to give an injection every 6 hours. If this is not possible, use the 8-hour or the 12-hour dosing schedule (see Treatment Instructions). Give both antibiotics by injection for at least 3-5 days. If the child has improved by this time, switch to oral Amoxicillin. The total treatment duration should be 10 days.
 - For SEVERE MALARIA, give IV/IM Artesunate (preferable) or IV/IM Quinine. If you start Quinine, repeat the Quinine injection at a dose of 10mg/kg, every 8 hours until the child is able to take an oral antimalarial. See Treatment Instructions on Page 46.
- 2. Manage fluids carefully The fluid plan depends on the child's signs.
 - If the child also has diarrhoea with SEVERE DEHYDRATION, but has no stiff neck and no SEVERE MALNUTRITION OR SEVERE ANEMIA, give fluids according to Plan C.

The general danger sign which resulted in the classification VERY SEVERE FEBRILE DISEASE may have been due only to dehydration. Rehydrate, and then completely reassess and reclassify the child. The reassessment and reclassification of the child after rehydration may lead to a change in treatment plan if the child no longer is classified as VERY SEVERE FEBRILE DISEASE.

If the child has **VERY SEVERE FEBRILE DISEASE with a stiff neck or bulging fontanelle**, restrict fluids. The child may have meningitis. Be careful to restrict the amount of fluid as follows:

FLUIDS IF MENINGITIS SUSPECTED	AGE	Approximate amount of formula to give	Total amount in 24 hours
(stiff neck or bulging fontanelle)	Less than 12 months:	3.3 ml/kg/hour	80 ml/kg/day
	12 months up to 5 years:	2.5 ml/kg/hour	60 ml/kg/day

- Avoid giving intravenous fluids.
- If the child is vomiting everything or not able to drink or breastfeed, give fluid by NG tube.
- If you do not know how to use a NG tube and the child is able to swallow, use a dropper to give the child fluid very slowly, or drip fluid from a cup or a syringe (without needle).
- If the child has SEVERE MALNUTRITION, give fluids as described under Essential Care for SEVERE PNEUMONIA or VERY SEVERE DISEASE (Page 68-69).
- 3. Treat the child to prevent low blood sugar See Treatment Instructions on Page 45 & 77.

Essential Care for SEVERE PERSISTENT DIARRHOEA

1. Treat dehydration using the appropriate fluid plan

- 2. Advise mother how to feed child with persistent diarrhoea See the box on the COUNSEL THE MOTHER chart. For infants less than 6 months, exclusive breastfeeding is very important. If the mother has stopped breastfeeding, help her relactate (or get help from someone who knows how to counsel on relactation).
- 3. Give vitamins and minerals Give supplementary vitamins and minerals every day for 2 weeks. Use a mixture containing a broad range of vitamins and minerals, including at least twice the recommended daily allowance of folate, Vitamin A, zinc, magnesium and copper.
- 4. Identify and treat infection Some children with PERSISTENT DIARRHOEA have dysentery and other infections such as pneumonia, sepsis, and urinary tract infection. These require specific antibiotic treatment. If no specific infection is identified, do not give antibiotic treatment because routine treatment with antibiotics is not effective.
- 5. Monitor the child See the mother and the child each day. Monitor the child's feeding and treatments and the child's response. Ask what food the child eats and how much. Ask about the number of diarrhoeal stools. Check for signs of dehydration and fever. Once the child is feeding well and has no signs of dehydration, see the child again in 2 to 3 days. If there are any signs of dehydration or problems with the changes in feeding, continue to see the child every day. Help the mother as much as possible.

Essential Care for SEVERE COMPLICATED MEASLES

- 1. Manage measles complications Management depends on which complications are present.
 - If the child has mouth ulcers, apply half-strength (0.25%) gentian violet. Help the mother feed her child. If the child cannot swallow, feed the child by NG tube. Treat with IM Chloramphenicol.
 - If the child has corneal clouding, be very gentle in examining the child's eye. Treat the eye with Tetracycline eye ointment carefully. Only pull down on the lower lid and do not apply pressure to the globe of the eye. Keep the eye patched gently with clean gauze.
 - > Also treat other complications of measles, such as pneumonia, diarrhoea, ear infection.
- 2. Give Vitamin A Give 3 doses of Vitamin A. Give the first dose on the first day and the second dose on day 2. Give the third dose on day 15 (14 days from the 2nd dose).
- 3. Feed the child to prevent malnutrition

Essential Care for MASTOIDITIS - Give IV/IM Ceftriaxone, 50 mg/Kg every 12 hours, for 10 days; If not, give IV/IM Benzyl Penicillin/Ampicillin and IV/IM Gentamicin. Treat for 10 days total. Switch to oral Amoxicillin after 3-5 days.

Essential Care for SEVERE ANEMIA - A child with severe anaemia is in danger of heart failure.

- 1. Give iron by mouth (treat and follow child like Anemia)
- 2. Give antimalarial, if needed
- 3. Give Mebendazole/Albendazole for hookworm or whipworm.
- 4. Feed the child Give good complementary foods.
- 5. Give Paracetamol if fever is present Give Paracetamol every 6 hours.
- 6. Give fluids carefully Let the child drink according to his/her thirst. Do not give IV or NG fluids.

Essential Care for Convulsions (current convulsions, not by history but during this illness)

- 1. Manage the airway -Turn the child on his/her side to reduce the risk of aspiration. Do **not** try to insert an oral airway or keep the mouth open with a spoon or spatula. Make sure that the child is able to breathe. If secretions are interfering with breathing, insert a catheter through the nose into the pharynx and clear the secretions with suction.
- 2. Give Diazepam followed by paraldehyde- See Treatment Instructions on Page 79.
- 3. If high fever present, lower the fever Give Paracetamol and sponge the child with tepid water.
- 4. Treat the child to prevent low blood sugar See Treatment Instructions on Page 46 & 79.

TREATMENT INSTRUCTIONS

Recommendations on how to give specific treatments for severely ill children who cannot be referred

Three dosing schedules for drugs are provided in this annex. The schedules are for every 6 hours (or four times per day), every 8 hours (or three times per day), and every 12 hours (or twice per day). Choose the most frequent schedule that you are able to provide.

For IM Gentamicin daily dosing schedule at a dose of 7.5mg/kg once daily; for newborns < 7 days old use 5 mg/kg of Gentamicin once daily.

Ideally, the treatment doses should be evenly spaced. Often this is not possible due to difficulty giving a dose during the night. Compromise as needed, spreading the doses as widely as possible.

Some treatments described below are impractical for a mother to give her child at home without frequent assistance from a health worker, for example, giving injections or giving frequent feedings as needed by a severely malnourished child. In some cases, a health worker may be willing to care for the child at or near his/her home or in the clinic to permit the frequent care necessary.

Benzyl Penicillin - The first choice is to give IM Benzyl Penicillin. IM Ampicillin can be substituted for Benzyl Penicillin. If you are not able to give IM Benzyl Penicillin or IM Ampicillin, give oral Amoxicillin.

Ampicillin – Ampicillin can be given IV/IM at a dose of 50mg/kg/dose every 6 hours. It should be diluted to a concentration of 200mg/ml (vial of 500 mg mixed with 2.1 ml of sterile water for injection to give 500mg/2.5 ml solution).

TREATMENT INSTRUCTIONS...

Gentamicin - Give IM Gentamicin every 24 hours, 7.5mg/kg/dose for those \geq 7 days old. Newborns < 7 days old are given 5 mg/kg of Gentamicin once daily. If Gentamicin is not available, give young infants with VERY SEVERE DISEASE both Benzyl Penicillin/Ampicillin and Chloramphenicol.

<u>Avoid using undiluted 40mg/ml Gentamicin</u>. Add 6 ml sterile water to 2 ml vial containing 80 mg which gives you an 8 ml solution with a 10mg/ml Gentamicin concentration.

Chloramphenicol - Give IM Chloramphenicol for 5 days. Then switch to an oral antibiotic to complete 10 days of antibiotic treatment. If you are not able to give IM antibiotic treatment, but oral Chloramphenicol is available, give oral Chloramphenicol by mouth or NG tube. Give every 6 hours, if possible.

Quinine – See instruction on Page 47 & 78.

Give first dose of IM Quinine at a loading dose of 20mg/kg (divided into 2 sites, anterior thigh). Repeat the IM Quinine injection at a dose of 10mg/kg every 8 hours until the child is able to take an oral anti-malarial. After 48 hours of parenteral therapy, reduce the maintenance dose by 1/3 to 1/2, that is, 5-7mg/kg every 8 hours. Stop the IM Quinine as soon as the child is able to take an oral antimalarial.

The injections of Quinine usually should not continue for more than 4-5 days. Too high of a dosage can cause deafness and blindness, as well as irregular heartbeat or cardiac arrest.

The child should remain lying down for one hour after each injection as the child's blood pressure may drop. The effect stops after 15 - 20 minutes.

When the child can take an oral antimalarial, give a full dose according to national guidelines for completing the treatment of severe malaria. Currently, the oral antimalarial recommended is Artemether-Lumefantrine.

TREATMENT INSTRUCTIONS ...

DOSING SCHEDULE — INTRAMUSCULAR DRUGS

	AMPICILLIN	DOSE: 70 To vial containing 600	ENICILLINE 000 units/Kg 0mg or (1 000 000 units) mes daily	GENTAMICIN DOSE: 7.5MG/Kg Once daily	QUINI DOSE: 10 Three time	mg/Kg
AGE or WEIGHT	DOSE: 50 mg/Kg To vial containing 250mg, add 1.3ml sterile water = 250mg per 1.5ml Two times daily	Add 2.1ml sterile water = 2.5ml at 400 000 units per ml	Add 3.6ml sterile wa- ter = 4ml at 250 000 units per ml	Undiluted 2 ml contain- ing 20 mg = 2 ml at 10 mg/ml	150mg/ml	300 mg/ml
1 Kg		0.2 ml	0.3 ml	0.75 ml	0.07 ml	0.03 ml
2 Kg	0.8 ml	0.3 ml	0.6 ml	1.5 ml	0.13 ml	0.07 ml
3 Kg	1.0 ml	0.5 ml	0.8 m	2.25 ml	0.2 ml	0.1 ml
4 Kg	1.2 ml	0.7 ml	1.1 ml	3 ml	0.3 ml	0.13 ml
5 Kg	1.5 ml	0.9 ml	1.4 ml	3.75 ml	0.3 ml	0.17 ml
4 months up to 9 months (6-<8 Kg)	2.0 ml	1.2 ml	2.0 ml	5.4 ml	0.4 ml	0.2 ml
9 months up to 12 months (8-<10 Kg)	2.6 ml	1.6 ml	2.5 ml	6.6 ml	0.6 ml	0.3 ml
12 months up to 3 years (10-<14 Kg)	3.6 ml	2.0 ml	3.5 ml	9 ml	0.8 ml	0.4 ml
3 years up to 5 years (14-<19 Kg)	5.0 ml	3.0 ml	4.5 ml	12 ml	1.2 ml	0.6 ml

Treat the Child to Prevent Low Blood Sugar

If the child is conscious, follow the instructions on the *TREAT* chart. Feed the child frequently, every 2 hours, if possible. If the child is unconscious and you have dextrose solution and facilities for an intravenous (IV) infusion, start the IV infusion. Once you are <u>sure</u> that the IV is running well, give 5 ml/kg of 10 % dextrose solution (D10) push, or give 1 ml/kg of 40% dextrose solution (D50) by very slow push. Then insert a NG tube and begin feeding every 2 hours.

Potassium Chloride Solution (100 grams KCl per litre) - Give 0.5 ml (or 10 drops from a dropper) per kilogram of body weight with each feed. Mix well into the feed.

Diazepam and paraldehyde

Per rectum - Use a plastic syringe (the smallest available) without a needle. Put the Diazepam or Paraldehyde in the syringe. Gently insert the syringe into the rectum. Squirt the Diazepam or Paraldehyde. Keep the buttocks squeezed tight to prevent loss of the drug.

If both Diazepam and Paraldehyde are available, use the following schedule:

- 1. Give Diazepam.
- 2. In 10 minutes, if convulsions continue, give **Diazepam** again.
- 3. In 10 more minutes (that is, 20 minutes after the first dose), if convulsions continue, give **Paraldehyde**.
- 4. In 10 more minutes (that is, 30 minutes after the first dose), if convulsions continue, give **Paraldehyde** again.

This is the preferred treatment. It is safer than giving 3 doses of Diazepam in a row due to the danger of respiratory depression.

If only Diazepam is available, use the following schedule:

- 1. Give **Diazepam**.
- 2. In 10 minutes, if convulsions continue, give **Diazepam** again.
- 3. In 10 more minutes (that is, 20 minutes after the first dose), if convulsions continue and the child is breathing well, give **Diazepam** again. Watch closely for respiratory depression.

If only Paraldehyde is available, use the following schedule:

- 1. Give **Paraldehyde**.
- 2. In 10 minutes, if convulsions continue, give **Paraldehyde** again.
- 3. In 10 more minutes (that is, 20 minutes after the first dose), if convulsions continue, give **Paraldehyde** again.

DOSAGE TABLE - DIAZEPAM and PARALDEHYDE

AGE or WEIGHT	DIAZEPAM RECTALLY 10 mg/2 ml Solution, Dose 0.3 mg/kg	PARALDEHYDE, (1 g/ml solution) Dose: 0.15 - 0.3 ml/kg, Give rectally.
2 months up to 6 months (5 - 7 kg)	0.5ml	1.0 ml
6 months up to 12months (7 - <10 kg)	1ml	1.5 ml
12 months up to 3 years (10 - <14 kg)	1.5ml	2.0 ml
3 years up to 5 years (14-19 kg)	2.0ml	3.0 ml

APPETITE TEST FOR CHILDREN WITH SEVERE MALNUTRITION

In a child who is ≥ 6 months old, if WFL/H < -3Z or MUAC is < 11.5 cms, or if oedema of both feet (+, ++) and has no medical complications (i.e. general danger sign, severe classification, pneumonia, watery diarrhoea with dehydration, persistent diarrhoea, dysentery, measles, hypothermia (axillary temperature <35°C) or high fever (≥ 38.5°C), dermatosis +++), assess appetite.</p>

How to do the appetite test?

- 1. The appetite test should be conducted in a separate quiet area.
- 2. Explain to the care taker the purpose of the appetite test and how it will be carried out.
- 3. The care taker and the child, where possible, should wash their hands.
- 4. Verify with the caregiver how long since the child ate or drank before the appetite test to ensure that a failed appetite test is not due to the child just having eaten.
- 5. The care taker should sit comfortably with the child on her lap and either offers the Ready to Use Therapeutic Food (RUTF) from the packet or put a small amount on her finger and give it to the child.
- 6. If the child refuses to eat, the caregiver should continue to gently encourage the child to eat. However, the child should not be forced.
- 7. Provide clean water for the child to drink while eating the RUTF.
- 8. Observe the child eating the RUTF for 30 minutes and decide if the child passes or fails the test.

RUTF Appetite Test Results

- Pass : child eats some of the RUTF within 30 minutes.
- Fail: child refuses to eat the RUTF after 30 minutes.

The appetite test should always be performed carefully. Patients who fail their appetite tests should always be offered treatment as in-patients. If there is any doubt then the patient should be referred for in-patient treatment until the appetite returns.

OUTPATIENT MANAGEMENT OF UNCOMPLICATED SAM

Children (≥ 6 months) with SAM WITHOUT medical complications and who PASS the appetite test – can be treated as outpatients with:

Ready to Use Therapeutic Food (RUTF) according to the following table

		umpy Nut) ² gm sachet)
Weight of Child (Kgs)	Sachets per day	Sachet per week
3.5 to 3.9	1½	11
4.0 to 5.4	2	14
5.5 to 6.9	21/2	18
7.0 to 8.4	3	21
8.5 to 9.4	31/2	25
9.5 to 10.4	4	28
10.5 to 11.9	41/2	32
≥ 12	5	35

Key education messages for care takers of children on OTP

- 1. RUTF is a food and medicine for malnourished children only. It should not be shared
- 2. Sick children often do not like to eat. Give small regular meals of RUTF and encourage the child to eat often, every 3-4 hours (up to 8 meals per day)
- 3. RUTF is the only food these children need to recover during their time in OTP
- 4. For breast-fed children, always give breast milk before the RUTF and on demand
- 5. Always offer plenty of clean water to drink while eating RUTF
- 6. Do not mix RUTF with liquids as this might cause bacterial growth.
- 7. Use soap for child's hand and face before feeding, if possible
- 8. Keep food clean and covered
- 9. Sick children get cold quickly, always keep the child covered and warm
- 10. With diarrhoea, never stop feeding. Give extra food and clean water (or breast milk)
- **NB** Check the mothers understanding using appropriate checking questions.

OTP MANAGEMENT OF UNCOMPLICATED SAM

1. Oral antibiotics – Give Amoxycillin two times per day for 5 days (for dosage see drug table).

- 2. Vitamin A Do not give an additional high dose of vitamin A to children with SAM in the OTP as RUTF contains an adequate amount of vitamin A. However, vitamin A should be given immediately and referred to SC if:
 - the child has visible clinical signs of vitamin A deficiency (Bitot's spots, corneal clouding, or corneal ulceration)
 - the child has measles now or has had measles in the past 3 months.

3. Give single dose Mebendazole/Albendazole at the 2^{nd} outpatient visit (after 7 days), for children \geq 2 years old.

4. Give Measles vaccine on the 4th week of treatment for all children aged \geq 9 months and without a vaccination card (unvaccinated).

5. Children should be brought back to the health facility on a weekly basis until they recover. At each follow up visit, health staff should check the following:-

- A) Record weight, MUAC and degree of oedema (every visit).
- B) Do appetite test (every visit)
- C) Height/length and WFL/H (at HC level, measure on admission, once a month and on discharge)
- D) Check weight loss (patients who lose weight or have weight fluctuations should receive a home visit and/or further medical examination)
- E) Do a complete reassessment according to the assess chart (if child developed medical complications they should be referred to the nearest in-patient unit)

6. Children may be discharged from the OTP when they reach the following criteria:

A. If admitted with bilateral pitting oedema, discharge as cured when:	B. If admitted based on MUAC, discharge as cured when:	C. If admitted based on WFH/WFL, discharge cured when:
 No bilateral pitting oedema for 2 consecutive visits AND MUAC ≥ 12.5 cm or WFH/WFL ≥ -2 z-score AND Clinically well and alert 	 MUAC ≥ 12.5 cm AND No bilateral pitting oedema AND Clinically well and alert 	 WFH/WFL ≥ -2 z-score AND No bilateral pitting oedema AND Clinically well and alert.

OTP MANAGEMENT OF UNCOMPLICATED SAM

OTP Exit Categories:

Category	Definition
Cured	Has reached the discharge criteria for SAM treatment per the above table.
Died	Dies while receiving treatment in the OTP.
Defaulted	Absent for two consecutive visits. Default should be confirmed.
Non-responder	Does not reach the SAM discharge criteria after 16 weeks (4 months) in treatment.
Transferred-out	Condition has deteriorated or not responding to treatment according to action protocol and referred for treatment in the SC, or moved out to receive OTP in another facility.

7. Transfer of OTP patients to in-patient care -

During weekly follow up, if child develops any of the following, s/he should be referred to the in-patient or SC as transfer outs.

- failed appetite test, or
- deteriorating nutritional status, and/or
- a medical complication

In addition, non-responders should also be referred to SC.

If a child requires in-patient care, all anthropometric measurements, medical history and physical findings are recorded in the OTP card and the child is classified as *transfer*.

In-patient treatment should be given in accordance with the Ethiopian "National Guideline for Management of Acute Malnutrition, FMOH, 2019".

MANAGEMENT	OF THE SICK YO	UNG INFANT A	AGE BIRTH UP TO	2 MONTHS		
Name: Age	: weeks	Sex:				mperature:°C
ASK: infant's problems?			Initial	visit?	Follow-up Visit?	
ASSESS (Circle all signs present)						CLASSIFY
CHECK FOR BIRTH ASPHYXIA (immediately after birth		Not breathir Gasping	g / Not crying at all			
		Is breathing	poorly (< 30 per mi	inute)		
ASSESS FOR BIRTH WEIGHT AND GESTATIONAL AG	E	Waish tha h	ob //			
(the first7 days of life) Ask gestational age; <32 wks, $32-37$ wks, ≥ 37 wks	;	Weigh the b <1,500gms,	aby. 1,500-2,500gms	s, ≥2,50	Ogms	
CHECK FOR VERY SEVERE DISEASE and LOCAL BAC						
 Is the infant having feeding difficulty? If yes: Unable to feed 		Count the bre Repeat if (;	aths in one minute. ≥ 60) elevated	breaths	s per minute reathing?	
Not feeding well		Look for seve	re chest indrawing.		reating:	
- Has the infant had convulsions?			ant is convulsing no cus. Is it red or dra			
		Fever (tempe	rature <u>></u> 37.5°C or f	feels hot) or b	ody	
		temperature Look for skin	< 35.5°C (or feels c oustules	ool)		
		Look at young	infant's movement			
			y when stimulated? nove even when sti			
CHECK FOR JAUNDICE			e face or eyes ye			
			s and soles yellov			
DOES THE YOUNG INFANT HAVE DIARRHOEA? Yes	No ·		ing infant's general hen stimulated?	condition. In	fant	
· For how long? Days		Does not mo	ve even when stim	ulated?		
· Is there blood in the stools?		Is restless or Look for sunke				
		Pinch the skin	of the abdomen. Do			
CHECK FOR HIV INFECTION		Very slow	y (longer than 2 se	conds)? Slo	owly?	
ASK: HIV status of the mother? Positive	, Negative	, Unknov	wn			
Antibody HIV status of the infant? Positive	, Negative	, Unkno	wn			
DNA/PCR HIV status of the infant? Positive THEN CHECK FOR FEEDING PROBLEM OR UNDERWE	.	, UIIKIIU	WII			
 Is there any difficulty of feeding? Yes No 						
 Is the infant breastfed? Yes No If Yes, how 						
 Do you increase frequency of breastfeeding during illness 	s? Yes No		 Look for ulce 	ers or		
 Infant receive any other foods or drinks? YesNo What do you use to feed the child? Bottle? 	If Yes, how often	I? times	white patche	es in the mou	th (oral thrush).	
If the infant has no indications to refer urgently AND inf	ant is on breastf	eeding, ASSE	SS BREASTFEED	ING:		
- Has the infant breastfed in the previous hour?			to attach? To check	,	look for:	
 If infant has not fed in the previous hour, ask the mother t infant to the breast. Observe the breastfeed for 4 minutes 		Chin touching I Mouth wide op	oreastYes No en Yes No			
- If the infant was fed during the last hour, ask the mother it	f she can -	Lower lip turne	d outward Yes	No		
wait and tell you when the infant is willing to feed again	-		ove than below the ent Poor atta		'es No No	
- Is the infant positioned well? To check positioning, look for		ttachment at al	· · · · · · · · · · · · · · · · · · ·			
 Infant's head and body straight Yes No _ Facing the breast Yes No 		the infant suckl	ing effectively (that	is, slow deer	o sucks.	
 Infant's body close to her body Yes No _ 	som	netimes pausing	g)?			
- Supporting the whole body Yes No Good Positioning Poor positioning		Suckling effectiv	/ely not sucki 	ung eπectivel	y not	
ASSESS FEEDING, WHEN NO CHANCE OF BREASTFEEDING						
̈́Hs there any difficulty feeding? Ŵ/hat milk are γου giving?			. Dotorminei-l / f			
YHow many times during the day and night?			 Determine weight f Underweight 	_		
ŸHow much is given at each feed? ŸHow are you preparing the milk?			NOT Underwei · Look for ulcers or		in the mouth (oral	
Let the mother demonstrate or explain how a feed is prepared, an YAre you giving any breast milk at all?	d how it is given to th	he infant	thrush).	-		
What foods or fluids in addition to the replacement feeding is given	1?					
YHow is the milk being given? Cup or bottle? YHow are you cleaning the feeding utensils						
THEN CHECK THE CHILD'S DEVELOPMENT - Any birth mile stone - Absent						
CHECK THE YOUNG INFANT'S IMMUNIZATION STATU	S. Circle vaccin	es needed to	day. Tick ($$) alre	ady given v	accines	Return for next
OPV 0 BCG HepB BD		PT1-HepB1-H			Rota1	immunization on:
ASSESS OTHER PROBLEMS:			~· FV	~ * 1		
-						
COUNSEL THE MOTHER ABOUT HER OWN HEALTH						

Give any immunizations needed today:
Return for follow-up in:

MANAGEMENT OF THE SICK CHI	LD AGE 2 MONTHS UP TO 5 YEARS		
Child's Name	Age months Sex		
	cm Temp0C Initial visit ? Follow		
ASK : What are the child's problems?			
ASSESS (Circle all signs present, tick or fill	dashes/spaces)	CLASSIFY	TREAT
CHECK FOR GENERAL DANGER SIGNS			
NOT ABLE TO DRINK OR BREASTFEED	CONVULSING NOW		
VOMITS EVERYTHING	LETHARGIC OR UNCONSCIOUS		
History of CONVULSIONS			
DOES THE CHILD HAVE COUGH OR DIFFICU	LT BREATHING? Yes No		
	Count breaths breaths/minute.		
For how long? Days	Fast breathing?		
	Look for Chest indrawing, Stridor, .Wheeze		
	Oxygen saturation %.		
DOES THE CHILD HAVE DIARRHOEA?	Yes No		
	Child's general condition.		
For how long? Days	Lethargic or unconscious? Restless and irritable?		
	Look for sunken eyes.		
Is there blood in the stool?	Offer the child fluid.		
	Not able to drink or drinking poorly?		
	Drinking eagerly, thirsty?		
	Skin Pinch goes back: Very slowly? Slowly?		
DOES THE CHILD HAVE FEVER? (by history/fe	eels hot/temperature ≥37.5₀C) Yes No		
Decide MALARIA risk: High/Low, No,	Look or feel for stiff neck.		
- If "No" risk, Has child traveled to	Look for bulging fontanel		
malarious area in the last 30 days?	Look for runny nose		
Duration of fever? Days	Look for signs of MEASLES NOW :		86
- If >7 days, fever present every day?	Generalized rash, And one of these:		
Child had measles within the last 3 months?	Cough, Runny nose or Red eyes.		
	Blood Film: Positive, Negative, Not Done		
	If Positive: P falciparum, P vivax, Mixed		
If the child has measles now or	Look for mouth ulcers:		
within the last 3 months:	If Yes, deep and extensive?		
	Look for pus draining from the eye.		
	Look for clouding of the cornea.		
DOES THE CHILD HAVE AN EAR PROBLEM	? Yes No		
Is there ear pain?	Look for pus draining from the ear.		
Is there ear discharge?	Feel for tender swelling behind the ear.		
If Yes, for how long?days			
THEN CHECK FOR ANEMIA	Look for palmar pallor:		
	Severe pallor? Some pallor?		
	Hgb: gm/dL		
THEN CHECK FOR MALNUTRITION	1		
For all children: Oedema of both feet: +,	,		
Determine WFH: < -3 Z,	-3 Z to <-2 Z, \geq -2 Z		
For children aged ≥ 6 months (Lt/Ht 65 -110	cm)		
- If WFH not done, MUAC : <11.5cm,			
- If child has oedema, or WFH <-3 Z or MUA			
	() > 1 (.) ()() ,		
- Look for medical complications,			
- Look for Dermatosis: +, ++	, +++		
- Assess appetite (as per the crite	ria), Passed Failed		

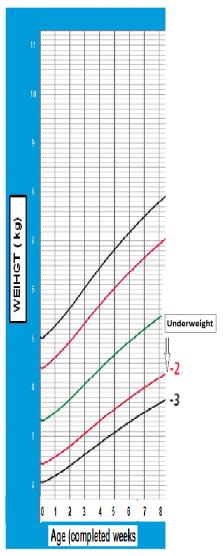
MANAGEMENT OF THE SICK CHILD AG	GE 2 MONTHS UP TO 5 YEARS		
Child's Name:	Age months CONTINUED,		
	0 ,		
ASSESS (Circle all signs present, tick or fill dashes		CLASSIFY	TREAT
DOES THE CHILD NEED FEEDING ASSESSMENT?	Yes No		
If child is < 2 years , or has ANEMIA or has MAM: And No Set	vere Classification - S/he Needs Feeding Assessment.		
Do you breastfeed your child? Yes No			
If Yes, how many times in 24 hours? times. Do	o you breastfeed during the night? Yes No		
Does the child take any other food or fluids? Yes N	lo		
If Yes, what food or fluids?			
How many times in 24 hours? times.			
How much is given at each feed?			
What do you use to feed the child? CupBottle	e Other		
If on replacement milk: What replacement milk are you give	ving?		
How many times in 24 hours? times	How much is given at each feed?		
How is the milk prepared? Hor	w are you cleaning the utensils?		
If very low weight for age: How large are servings?			
Does the child receive his own serving? Yes	_ No		
Who feeds the child and how?			
During the illness, has the child's feeding changed? Yes _	No		
If Yes, how?			
THEN CHECK FOR HIV INFECTION			
	egative,Unknown		
	egative, Unknown		
	legative, Unknown		
Is child on breast feeding? Yes, No If no, w			
THEN CHECK FOR TUBERCULOSIS	Look for Swelling or discharging wound		87
Cough of >14 days	MAM or SAM		∞
Fever and/or night sweats > 14 days	HIV status: Positive, Negative, Unknown,		
Loss of weight or failure to gain weight	AFB/Gene Xpert: Positive, Negative, Not Done		
Contact with known PTB patient	Chest X-ray : Suggestive, Not suggestive,		
	Not Done		
THEN CHECK THE CHILD'S DEVELOPMENT			
Assess age appropriate developmental milestones			
Current age mile stones - Absent Earlier age milest	ones - Absent Regression of milestones		
CHECK THE CHILD'S IMMUNIZATION AND VITAMIN A			Return for next
Circle vaccines/Vitamin A needed today. And tick $(\sqrt{)}$ alre			Immunization/Vitamin A dose on:
BCG OPV 0 HEpB BD Penta1	PCV1 Rota1 OPV 1		(Date)
Penta2 PCV2 Rota2 OPV2 Penta3	PCV3 IPV OPV3		
Measles1 Measles2 Vitamin A			

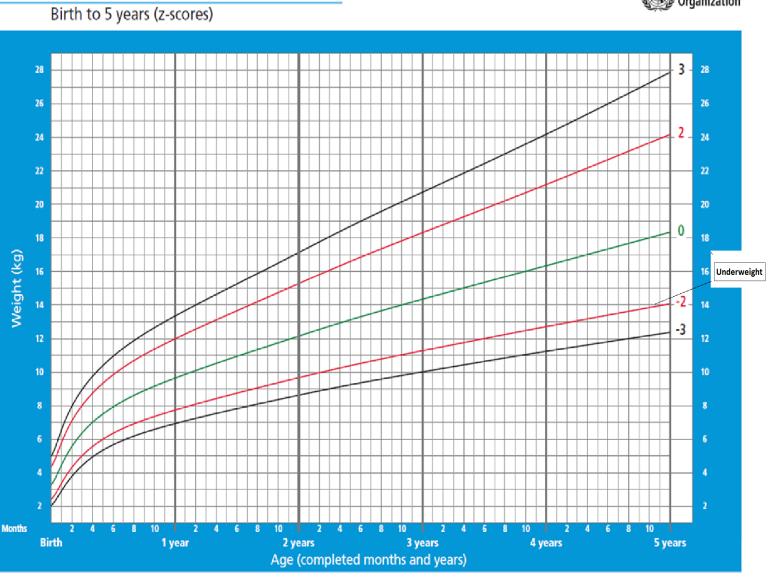


Weight-for-age BOYS



Birth to **2** months (z-scores)





WHO Child Growth Standards



Underweight

-2

-3

2 3 4 5 6 7 8

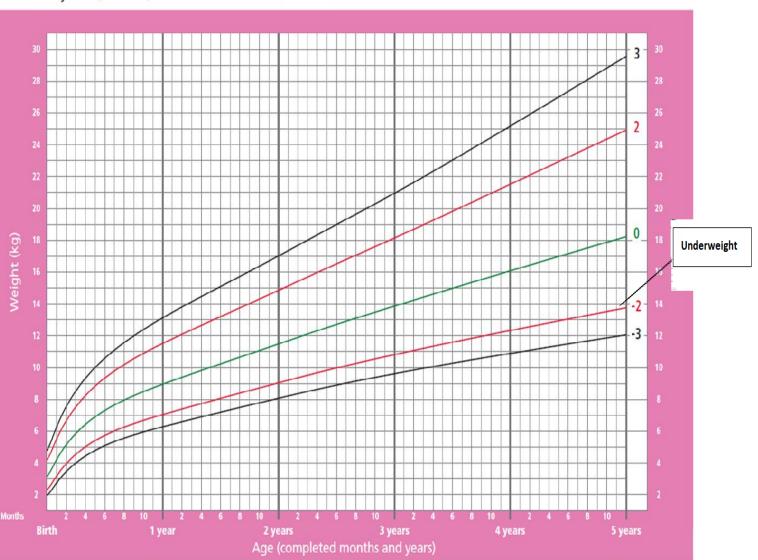
Age (completed weeks

0 1

WEIHGT (kg)

Weight-for-age GIRLS

Birth to 5 years (z-scores)



WHO Child Growth Standards

World Health Organization

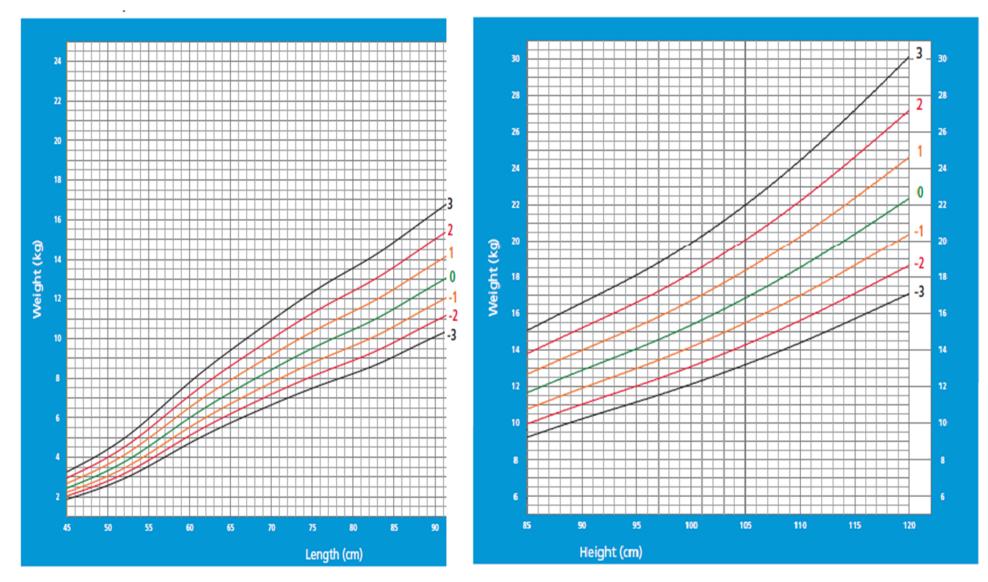
Weight-for-length BOYS

Birth to 2 years (z-scores)

Weight-for-height BOYS

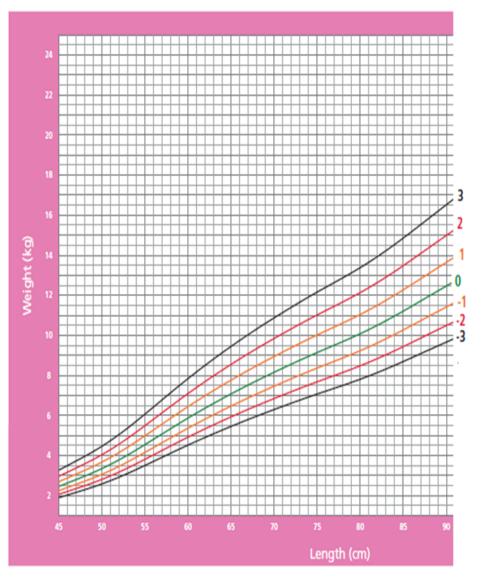


2 to 5 years (z-scores)



Weight-for-length GIRLS

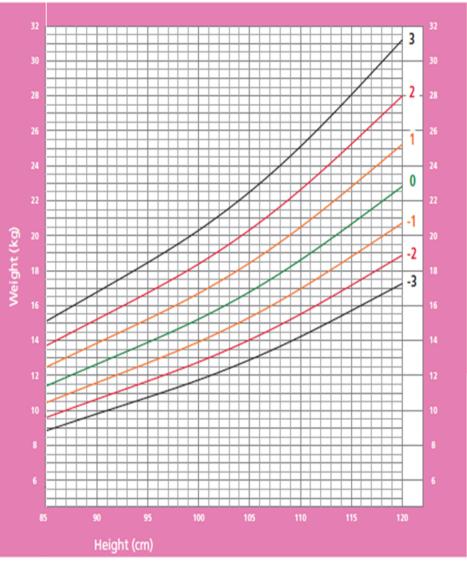
Birth to 2 years (z-scores)



Weight-for-Height GIRLS



2 to 5 years (z-scores)



WHO Child Growth Standards

Weight-for-Length Reference card - Boys & Girls

210 222 224 256 226 233 256 233 256 233 257 236 326 <t< th=""><th>dSP -</th><th>-2 SD</th><th>Boys' weight (kg)</th><th>Boys' weight (kg)</th><th>Length²</th><th>Median</th><th>Girls</th><th>Girls' weight (kg)</th><th>6</th></t<>	dSP -	-2 SD	Boys' weight (kg)	Boys' weight (kg)	Length ²	Median	Girls	Girls' weight (kg)	6
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1.9	2.0	22	24	45 V	2.5	23	21	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2.0	2.2	2.4	2.6	46	2.6	2.4	2.2	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2.1	2.3	2.5	2,8	47	2.8	2.6	2.4	200
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2.3	2.5	27	2.9	48	3.0	27	2.5	100
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2.4	2.6	2.9	3.1	49	3.2	2.9	2.6	2.4
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2.6	2.8	3.0	3,3	50	3,4	3.1	2.8	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2.7	3.0	3.2	3.5	5	3.6	3.3	3.0	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2.9	3.2	35	3,8	52	3.8	3.5	32	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	3.1	3,4	37	4.0	ង	40	3.7	34	
38 4.2 4.5 5.5 4.5 5.5 4.5 5.5 4.5 5.5 4.5 5.5 4.5 5.5 4.5 5.5 4.5 5.5 4.5 5.5 <th< td=""><td>33</td><td>3.6</td><td>3.9</td><td>43</td><td>54</td><td>4</td><td>3.9</td><td>3.6</td><td>223</td></th<>	33	3.6	3.9	43	54	4	3.9	3.6	223
411 441 <t< td=""><td>3.6</td><td>3.8</td><td>42</td><td>4</td><td>5</td><td>6 1</td><td>42</td><td>3.8</td><td></td></t<>	3.6	3.8	42	4	5	6 1	42	3.8	
413 417 526 610 612 612 627 <t< td=""><td>20.00</td><td>41</td><td>44</td><td>4.9</td><td>56</td><td>4.8</td><td>44</td><td>40</td><td></td></t<>	20.00	41	44	4.9	56	4.8	44	40	
4.6 5.1 5.5 5.7 <t< td=""><td>4.0</td><td>43 ±</td><td>47</td><td>5 5</td><td>द्य ४</td><td><u>:</u></td><td>45</td><td>43</td><td>2207</td></t<>	4.0	43 ±	47	5 5	द्य ४	<u>:</u>	45	43	2207
4.8 5.3 5.7 5.7 5.7 5.7 5.3 5.7 5.7 5.7 5.7 5.7 5.7 5.3 5.7 <	4.3	45	5	5 1	5		40	45	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	5 (4.8	5 5	53	5 8	5 1	5 1	4	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1	1			50				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4	5.1	50	00	6	2.9	4	4	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4.9	5.0	grc	e,	0	0.1	0.0	9.1	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	55	5.6	56	65	62	6.4	5.8	12	
6.0 6.2 6.7 7.7 6.6 7.7 7.6 8.2 7.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 7.7 7.0 8.6 7.7 7.0 8.6 7.7 7.0 8.7 7.7 7.0 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.8 <t< td=""><td>53</td><td>5,8</td><td>6.2</td><td>6.8</td><td>8</td><td>6.5</td><td>6.0</td><td>55</td><td>203</td></t<>	53	5,8	6.2	6.8	8	6.5	6.0	55	203
6.2 7.2 8.2 7.2 8.2 7.2 8.2 7.2 <t< td=""><td>5.5</td><td>0.0</td><td>6.5</td><td>7.0</td><td>2</td><td>6.9</td><td>2</td><td>5.7</td><td></td></t<>	5.5	0.0	6.5	7.0	2	6.9	2	5.7	
	5.7	6.2	6.7	7.3	3	7.1	65	5.9	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	5.9	6.4	6.9	7.5	8	7.3	6.7	0.1	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	6.1	6.6	7.1	7.7	67	75	6.9	6.3	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.5	0.8	12	0.0	6	1.1	1.1	20	
7.2 7.8 8.4 7.7 8.4 7.7 8.4 9.1 7.7 8.4 9.1 7.7 8.4 9.1 9.3 7.7 8.4 9.1 7.7 8.4 9.1 7.7 8.4 9.1 9.3 7.7 8.4 9.1 9.3 7.7 8.4 7.7 8.4 7.7 8.4 7.7 8.4 7.7 8.4 7.7 8.4 7.7 8.6 7.7 8.6 7.7 8.6 7.7 8.6 7.7 8.6 7.7 8.6 7.7 7.6 9.3 8.6 7.7 7.6 9.3 8.5 7.5 9.9 8.2 7.5 8.9 9.2 7.5 8.9 8.2 7.5 8.9 8.2 7.5 8.9 8.2 7.5 8.9 8.2 7.5 8.9 8.2 8.5 8.6 8.6 8.10 8.2 8.5 <	6.5	7.0	7.6	82	69	8.0	7.3	6.7	
1/4 8.0 9.1 8.1 7.7 8.6 7.2 8.6 7.2 8.6 7.2 7.5 9.1 8.1 7.2 8.6 7.2 7.5 9.1 8.2 7.5 8.6 7.2 7.5 8.6 7.2 7.5 8.6 7.2 7.5 8.6 7.2 7.5 8.6 7.6 9.2 8.6 7.2 8.6 7.7 8.6 <t< td=""><td>0.0</td><td>12</td><td>8.1</td><td>8,4</td><td>0</td><td>82</td><td>15</td><td>0.9</td><td></td></t<>	0.0	12	8.1	8,4	0	82	15	0.9	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.6	14	0.0	0 0	9 2	0 00 14	L.I	10	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.1	7.5	8.2	6.9	12	8.5	8.7	12	
	72	77	0 00 4	9.1	: 3	80,00	0.8	7.4	
8.1 8.8 9.1 9.7 7.7 9.1 9.7 8.4 9.1 9.9 7.7 9.1 9.5 10.1 9.7 9.5 10.1 9.7 9.5 10.1 9.7 9.5 10.1 9.7 9.5 10.1 9.7 9.5 8.7 9.5 8.7 8.6 7.7 9.5 8.7 8.9 8.2 8.6 7.7 9.5 8.7 8.0 9.1 9.5 10.2 10.2 10.6 811 9.2 8.5 7.8 9.4 10.2 11.1 12.0 8.2 10.1 9.2 8.5 8.2 9.6 11.5 12.5 11.5 10.5 9.6 8.8 9.0 9.2 8.8 9.0 10.7 11.5 12.5 11.5 10.5 9.6 11.7 10.7 9.8 9.0 11.7 12.6	1.5	19	0.0	9.3	4	0.6	2.0	10	
8.3 8.4 9.1 9.9 77 9.5 8.7 9.5 8.7 9.5 8.7 9.5 8.7 9.5 8.7 9.5 8.7 9.5 8.7 9.5 8.7 9.5 10.1 78 9.7 9.5 8.7 <th< td=""><td>7.5</td><td>8,1</td><td>8.8</td><td>9.5</td><td>75</td><td>9,1</td><td>8.4</td><td>77</td><td></td></th<>	7.5	8,1	8.8	9.5	75	9,1	8.4	77	
8.4 9.1 9.9 9.5 10.1 77 9.5 8.7 9.3 9.1 9.6 10.2 77 9.5 8.7 9.3 9.1 9.6 10.2 10.1 78 9.7 9.5 8.7 8.9 9.1 9.6 10.2 11.0 77 9.5 8.7 8.9 8.2 9.4 10.2 11.0 10.6 82 10.3 9.4 8.3 9.4 10.2 11.3 12.2 11.3 82 10.5 9.4 8.7 8.0 10.7 11.3 12.2 11.3 85 11.2 10.3 9.4 8.7 8.0 10.7 11.8 12.7 11.5 12.6 11.7 10.5 9.4 8.7 8.0 11.7 12.6 13.7 9.0 12.2 11.2 10.3 9.4 12.5 11.4 10.5	7.6	8.3	6.9	5.6	76	9.3	8.5	7.8	
8.6 9.3 10.1 78 9.7 8.9 9.1 9.6 10.3 79 9.9 9.1 8.7 9.2 10.0 10.1 78 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 8.3 9.2 10.0 10.2 11.0 10.1 9.2 10.2 11.0 10.1 9.2 8.2 9.2 10.2 11.3 10.2 11.3 10.2 10.3 9.4 8.3 9.4 10.2 11.3 12.2 11.3 8.4 11.0 10.1 9.2 8.5 10.7 11.3 12.2 11.3 12.2 10.3 9.4 8.7 10.7 11.8 12.7 10.7 9.6 9.7 9.2 8.2 11.7 12.6 13.7 9.2 8.7 11.2 10.3 9.4 1	7.8	8,4	9.1	6.6	Ц	9.5	8.7	0.8	
8.7 9.5 10.3 79 9.5 10.3 9.2 10.3 9.4 10.2 11.3 8.2 9.2 10.3 9.4 10.2 11.3 8.2 10.3 9.4 10.2 11.3 8.2 10.3 9.4 8.7 9.5 10.3 9.4 8.7 9.6 10.1 9.2 8.5 9.4 10.2 11.0 10.3 9.4 8.7 9.6 8.7 9.6 9.6 8.6 11.3 9.4 8.7 10.2 11.3 12.2 11.3 8.4 11.0 10.1 9.2 8.5 10.7 11.3 12.7 10.3 9.4 8.7 9.1 8.3 11.7 12.6 11.7 10.5 9.7 10.3 9.4 9.7 10.3 9.4 10.3 9.4 10.3 9.4 10.5 9.7 10.3 10.1 <td< td=""><td>7.9</td><td>9.8</td><td>9.3</td><td>10.1</td><td>78</td><td>9.7</td><td>6.9</td><td>8.2</td><td>-</td></td<>	7.9	9.8	9.3	10.1	78	9.7	6.9	8.2	-
8.9 9.1 9.8 9.2 10.0 10.2 11.2 00.2 10.2 11.2 10.2 10.2 11.2 10.3 9.4 8.7 10.2 11.1 12.0 8.3 10.7 9.8 9.0 10.7 11.5 12.2 11.3 8.4 11.0 10.1 9.2 10.7 11.5 12.2 11.3 8.6 11.5 10.5 9.7 10.7 11.8 12.7 10.7 9.9 12.2 11.2 10.3 11.7 12.6 13.7 12.5 11.4 10.5 11.7 10.7 11.2 13.3 12.4 9.7 12.3 11	8.1	8.7	9.5	10.3	79	6.6	9.1	8.3	
9.1 9.8 10.6 81 10.3 9.4 82 9.2 10.0 10.8 8.2 10.5 9.6 8.8 9.4 10.2 11.0 8.8 8.2 10.5 9.6 8.8 9.4 10.2 11.0 8.3 10.7 9.8 9.0 9.6 10.4 11.3 8.4 11.0 10.1 9.2 10.2 11.1 12.0 8.5 11.2 10.3 9.4 8.7 10.7 11.5 12.2 18.5 11.7 10.7 9.9 9.4 10.7 11.5 12.2 13.0 12.7 10.7 9.9 11.7 12.0 13.0 9.1 12.7 11.0 10.1 11.5 12.4 13.4 9.3 13.2 11.4 10.5 11.5 12.4 13.4 9.3 13.5 12.3 11.3 12.1 13.1 14.1 9.5 <t< td=""><td>8.2</td><td>6.8</td><td>9.6</td><td>10,4</td><td>8</td><td>10.1</td><td>9.2</td><td>85</td><td>1</td></t<>	8.2	6.8	9.6	10,4	8	10.1	9.2	85	1
9.2 10.0 10.8 82 10.5 9.6 10.4 11.3 84 11.0 9.8 9.6 10.4 11.3 84 11.0 9.8 9.6 10.4 11.3 84 11.0 9.8 9.6 9.6 11.5 85 11.2 10.3 9.4 9.6	8.4	9.1	8.6	10.6	81	10.3	9.4	8.7	
9.4 10.2 11.0 83 10.7 9.8 9.6 9.6 10.4 11.3 8.4 11.0 10.1 9.2 9.8 10.6 11.5 8.5 11.2 10.3 9.4 10.0 10.8 11.7 8.6 11.5 10.5 9.7 10.2 11.1 12.0 8.7 11.5 10.5 9.7 10.7 11.5 12.2 8.8 11.7 10.7 9.9 10.7 11.5 12.2 8.8 12.0 11.0 10.1 9.2 10.7 11.5 12.2 13.0 12.2 10.3 9.4 11.7 12.0 13.0 9.1 12.7 11.0 10.1 11.5 12.4 13.4 9.3 13.2 11.4 10.5 11.5 12.4 13.4 9.3 13.2 12.1 11.1 12.3 13.3 14.4 9.7 13.5 12.6	8.5	9.2	10.0	80L	82	10.5	9.6	8.8	~
96 10.4 11.3 84 11.0 10.1 92 98 10.6 11.5 85 11.2 10.3 94 10.0 10.8 11.7 86 11.5 10.5 91 10.2 11.1 12.0 87 11.5 10.5 94 10.7 11.5 12.2 88 12.0 11.0 10.1 92 10.7 11.5 12.5 89 12.2 11.2 10.3 94 10.7 11.5 12.2 13.0 11.7 10.7 99 11.3 12.2 13.0 91 12.2 11.2 10.3 11.7 12.0 13.0 91 12.7 11.1 10.5 11.7 12.6 13.7 92 13.0 11.9 10.3 11.9 12.6 13.7 14.4 93 13.5 12.5 11.5 12.5 13.5 14.6 98 14.5 </td <td>8.7</td> <td>9,4</td> <td>10.2</td> <td>0.11</td> <td>8</td> <td>10.7</td> <td>8.6</td> <td>9.0</td> <td>00</td>	8.7	9,4	10.2	0.11	8	10.7	8.6	9.0	00
98 106 11.5 85 11.2 10.3 9.4 100 102 11.1 12.0 86 11.5 10.5 9.7 10.2 11.1 12.0 87 11.5 10.5 9.7 10.2 11.3 12.2 88 11.7 10.5 9.7 10.7 11.5 12.2 88 12.0 11.7 10.7 9.9 10.7 11.3 12.2 88 12.0 11.0 10.1 9.9 11.1 12.0 13.0 91 12.2 11.2 10.3 9.4 11.3 12.2 13.2 90 12.2 11.3 10.1 10.3 11.7 12.0 13.0 11.2 10.3 10.1 10.5 11.4 10.5 11.7 12.6 13.7 92 92 13.0 11.9 10.9 11.5 12.4 13.4 93 13.5 12.6 11.5	6.9	9.6	10.4	111.3	22	0.11	10.1	9.2	00
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	9.1	86	10.6	111.5	8	11.2	10.3	9,4	00
10.2 11.1 12.0 87 11.7 10.7 99 10.5 11.3 12.2 88 12.0 11.0 10.1 10.7 11.5 12.5 89 12.2 11.0 10.1 10.9 11.8 12.7 90 12.2 11.2 10.3 11.1 12.0 13.0 91 12.2 11.2 10.3 11.1 12.0 13.0 91 12.2 11.2 10.3 11.3 12.2 13.2 92 12.5 11.4 10.5 11.5 12.4 13.4 93 13.2 11.1 10.9 11.9 12.6 13.7 94 13.5 12.3 11.3 12.1 13.1 14.1 95 13.7 12.6 11.5 12.5 13.5 14.6 98 14.5 13.3 12.0 12.7 13.7 14.9 96 14.0 12.8 12.0	9.3	10.0	10.8	711	8	11.5	10.5	2.6	8.9
10.5 11.3 12.2 88 12.0 11.0 10.1 10.7 11.5 12.5 89 12.2 11.2 10.3 10.7 11.5 12.5 89 12.2 11.2 10.3 10.9 11.8 12.7 90 12.2 11.2 10.3 11.1 12.0 13.0 91 12.7 11.7 10.5 11.3 12.2 13.2 92 13.0 11.9 10.3 11.5 12.4 13.4 93 13.2 12.1 11.1 11.9 12.6 13.7 94 13.5 12.3 11.3 11.9 12.8 13.9 95 13.7 12.6 11.5 12.1 13.1 14.1 96 14.0 12.8 11.7 12.5 13.5 14.6 98 14.5 13.3 12.0 12.7 13.7 14.9 96 14.8 13.5 12.4	9.5	10.2	EII	12.0	87	11.7	10.7	9.9	10
10.7 11.5 12.5 89 12.2 11.2 10.3 10.9 11.8 12.7 90 12.5 11.4 10.5 11.1 12.0 13.0 91 12.5 11.4 10.5 11.3 12.2 13.2 92 13.0 11.9 10.3 11.5 12.4 13.4 93 13.2 12.1 11.1 11.7 12.6 13.7 94 13.5 12.3 11.3 11.9 12.8 13.9 95 13.7 12.6 11.5 12.1 13.1 14.1 96 14.0 12.8 11.5 12.3 13.3 14.4 97 14.5 13.3 12.0 12.7 13.7 14.9 96 14.0 12.8 11.7 12.7 13.3 14.4 97 14.2 13.3 12.0 12.7 13.7 14.9 98 14.5 13.3 12.2	9,7	10.5	11.3	12.2	88	12.0	11.0	10.1	
10.9 11.8 12.7 90 12.5 11.4 10.5 11.1 12.0 13.0 91 12.7 11.7 10.7 11.3 12.2 13.2 92 13.0 11.9 10.9 11.5 12.4 13.4 93 13.2 12.1 11.1 11.7 12.6 13.7 94 13.5 12.3 11.3 11.9 12.8 13.9 95 13.7 12.6 11.5 12.1 13.1 14.1 96 14.0 12.8 11.7 12.3 13.3 14.4 97 14.2 13.0 12.0 12.5 13.5 14.6 98 14.5 13.3 12.0 12.7 13.7 14.9 99 14.8 13.5 12.4	9,9	10.7	11.5	12.5	68	12.2	11.2	10.3	
11.1 12.0 13.0 91 12.7 11.7 10.7 11.3 12.2 13.2 92 13.0 11.9 10.9 11.5 12.4 13.4 93 13.2 12.1 11.1 11.7 12.6 13.7 94 13.5 12.3 11.3 11.9 12.8 13.9 95 13.7 12.6 11.5 11.9 12.8 13.9 95 13.7 12.6 11.5 12.1 13.1 14.1 96 14.0 12.8 11.7 12.3 13.3 14.4 97 14.2 13.0 12.0 12.5 13.5 14.6 98 14.5 13.3 12.0 12.7 13.7 14.9 99 14.8 13.5 12.4	10.1	10.9	11.8	12.7	8	12.5	11.4	10.5	
113 122 132 132 132 132 113 122 132 92 13.0 11.9 10.9 115 12.4 13.4 93 13.2 12.1 11.1 117 12.6 13.7 94 13.5 12.3 11.3 119 12.8 13.9 95 13.7 12.6 11.5 12.1 13.1 14.1 96 14.0 12.8 11.7 12.3 13.3 14.4 97 14.2 13.0 12.0 12.7 13.7 14.9 98 14.5 13.3 12.2 12.7 13.7 14.9 99 14.8 13.5 12.4	10.3	111	100	130	2	107	117	10.7	
115 12.4 13.4 93 13.2 11.5 115 12.4 13.4 93 13.2 12.1 11.1 117 12.6 13.7 94 13.5 12.3 11.3 119 12.8 13.9 95 13.7 12.6 11.5 12.1 13.1 14.1 96 14.0 12.8 11.7 12.3 13.3 14.4 97 14.2 13.0 12.0 12.5 13.5 14.6 98 14.5 13.3 12.2 12.7 13.7 14.9 99 14.8 13.5 12.4	10.5	11.1	12.0	13.0	9 9	121	110	100	
115 12.4 13.4 93 13.2 12.1 11.1 117 12.6 13.7 94 13.5 12.3 11.3 119 12.8 13.9 95 13.7 12.6 11.5 12.1 13.1 14.1 96 14.0 12.8 11.7 12.3 13.3 14.4 97 14.2 13.0 12.0 12.5 13.5 14.6 98 14.5 13.3 12.0 12.7 13.7 14.9 99 14.8 13.5 12.4	Col	11.5	12.2	13.2	76	U.C.I	11.9	501	
117 12.6 13.7 94 13.5 12.3 11.3 11.9 12.8 13.9 95 13.7 12.6 11.5 12.1 13.1 14.1 96 14.0 12.8 11.7 12.3 13.3 14.4 97 14.2 13.0 12.0 12.5 13.5 14.6 98 14.5 13.3 12.2 12.7 13.7 14.9 99 14.8 13.5 12.4	10.7	11.5	12.4	13.4	93	13.2	12.1	111.1	_
11.9 12.8 13.9 95 13.7 12.6 11.5 12.1 13.1 14.1 96 14.0 12.8 11.7 12.3 13.3 14.4 97 14.2 13.0 12.0 12.5 13.5 14.6 98 14.5 13.3 12.0 12.7 13.7 14.9 99 14.8 13.5 12.4	10.8	11.7	12.6	13.7	94	13.5	12.3	113	_
12.1 13.1 14.1 96 14.0 12.8 11.7 12.3 13.3 14.4 97 14.2 13.0 12.0 12.5 13.5 14.6 98 14.5 13.3 12.2 12.7 13.7 14.9 99 14.8 13.5 12.4	11.0	11.9	12.8	13.9	95	13.7	12.6	115	_
12.3 13.3 14.4 97 14.2 13.0 12.0 12.5 13.5 14.6 98 14.5 13.3 12.2 12.7 13.7 14.9 99 14.8 13.5 12.4	11.2	12.1	13.1	141	96	14.0	12.8	117	_
12.5 13.5 14.6 98 14.5 13.3 12.2 12.7 13.7 14.9 99 14.8 13.5 12.4	114	12.3	13.3	14.4	97	14.2	13.0	12.0	_
12.7 13.7 14.9 99 14.8 13.5 12.4	116	12.5	13.5	14.6	8	14.5	13.3	12.2	_
1421 CLC1 CAP1 CC CAP1 CLC1 CAP1	110	107	127	140	8 3	110	125	51	
	1120	144	100	ł	22	140	100	i i	1

a. Length is measured tor children aged under 2 years or, if age is not known, below 87 cm.

12.0

12.9

14.0

15,2

ã

150

13.7

12.6

11.6

When recumbent length cannot be measured: Recumbent length is on average 0.7 cm greater than standing height; although the difference is of no importance to individual children, when recumbent length cannot be measured, a correction may be made by adding 0.7 cm to the height if the child is aged under 2 years (or below 87 cm if age not known).

Weight-for-Height Reference Card - Boys and Girls

(WHO 2006 Child Growth Standards)

17.1	16.8	16.5	16.0	15.7	15,4	15.2	14.9	14.6	14.4	14	13.9	13.7	134	13.2	13.0	12.8	12.5	123	121	11.0	117	1, 1,	1	11.0	8,01	0.01	10.4	10.2	10.0	8.6	9.6	9,4	92	6	88	9 65 7	8.3	8.2	0.8	7.9	72	76	12	73	6.9	6.8	6.6	64	<u>6</u>	6,0		Boy
18,6	18.2	18.0	17,4	17.1	16.8	16.5	16.2	15.9	15.6	15.3	15.1	14.8	14.5	14.3	14.0	13.8	13.6	13.3	3	12.0	9 61	7.71	0.71	170	110	14	112	0.11	801	10.6	10,4	10.2	10.0	07	9 y 5 U	9.2	9,0	8,8	8.7	20 c	80.4	8 80	1.3	7.7	7.5	7.3	7.1	6,9	67	50	-2 SD	Boys' weight (kg)
20,4	20.0	19.7	19.0	18.6	18.3	18.0	17.6	17.3	17.0	16.7	16,4	16.1	15,8	155	15.2	149	4	144	14.5	13.0	13.7	7.01	12.7	12.0	12.0	2.21	121	11.9	11.7	11.5	11.2	11.0	10.8	10.5	10.3	9,9	9.7	9,6	9,4	5	9	80	3 0	0 00	8.1	7.9	77	7.5	73	5.1 7.1	-1 SD	(kg)
22,4	220	21.6	20.8	20,4	20.0	19,6	19.2	18.9	185	18.2	17,8	17.5	17.2	16.8	16.5	16.2	159	156	154	15.1	14.8	14.0	5	141	13.0	10,4	13.1	12.9	12,6	12.4	12.2	11.9	117		11.2	10.8	10.6	10.4	10.2	ie i	40 V	0 9,4	9.4	0.6	8.8	9.8	8,4	<u>00</u>	7.9	7.7	Median	1
120	110	118	116	115	114	113	112	=	110	109	108	107	106	105	104	103	102	101	ŝ,	8 8	£ 4	9 8	RS	9 ¥	2 8	28	9 9	8	3	88	87	8	87 S	2 8	83 82	9 <u>9</u>	8	79	78	3 2	76	4 2	: 2	5	E L	70	69	68	67	s 3	(cm)	Height
22,8	33 A	22.0	21.1	20.7	20.2	19,8	19,4	19.0	981	18.2	17,8	17.5	17.1	16.8	16.4	16.1	15.8	155	15	14.9	14.7	141	111	13.0	15,4	12.1	12.9	12.6	12.4	12.1	11.9	911	11,4	11.1	10.9	10,4	10.2	10.0	9.8	6	95	2 5	6.9	80 80	38	8.3	8	7,9	77	5 2	Median	
20,7	2	19.9	19.2	18.8	18,4	18.0	17.7	17.3	17.0	16.6	16.3	15.9	15,6	15.3	15.0	14.7	14.5	14.5	13.0	13.7	13.4	C 81	100	13.7	12.3	071	811	3116	11,4	11.1	10.9	10.7	10,4	10.3	10.0	9.6	9,4	9.2	9.0	20 0	8.7	8, 8,	2	0.0	8.7	7.6	7.4	7.2	7.0	6 0 0	-1 SD	Girls'w
18.9	185	18.2	17.5	17.2	16.8	16.5	16.2	15.8	155	15.2	14.9	14.6	14.3	14.0	13,8	13.5	13.3	13.0	178	12.5	123	1.01	110	11.5	11.5		111	10.6	10,4	10.2	10.0	8,6	9.6	0.4	9.2	8,8	6,6	8,4	83	<u>20</u>	0.8	7.0	1.5	75	7.1	7.0	6,8	6,6	6.4	6.1	-2 SD	Girls' weight (kg)
17.3	160	16.6	16.0	15.7	15,4	15.1	14,8	145	14.2	13.9	13.7	13,4	13,1	12.9	126	124	12.2	120	1117	15	1	111	10.0	10.8	10,4	1012	100	8.6	9,6	9,4	9.2	9,0	8 8	8 0	80 O	, <u>8</u>	7.9	7.8	7.6	75	73	7.0	1 1	60.	6.6	6,4	63	6.1	5.9	50	-3 SD	
																																																				- 1

a. For children aged 2 years and above (or, if age not known, 87 cm or more), height is measured. When standing height cannot be measured: Recumbent length is on average 0.7 cm greater than standing height; although the difference is of no importance to individual children, when standing height cannot be measured, a correction may be made by subtracting 0.7 cm from the length if the child is aged 2 years or above or has a length of 87.0 cm or more