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OBJECTIVES & EXPECTED COMPETENCIES FOR HEALTH WORKER TRAINING

OBEJECTIVES

The training seeks to build the capacity of health workers on:

- 1. The effective use of the Maternal and Child Health Record Book (MCH RB)
- 2. Nutrition Counseling skills, Nutrition Counseling Services and Respectful Care
- 3. Appropriate use of the Growth Charts and Nutrition and Child Health Register

EXPECTED OUTCOME

At the end of the training, the health workers will gain knowledge and skills on:

- 1. how to use MCH RB.
- how to establish Nutrition Counseling Services and provide strengthened nutrition services and respectful care.
- 3. how to use Growth Charts and Nutrition and Child Health Register.

COMPETENCIES

It is expected that health workers will be able to:

- 1. Introduce MCHRB to mother.
- 2. Take history, examine and complete all sections of the MCHRB correctly.
- 3. Measure weight, length and height.
- 4. Calculate Body Mass Index (BMI) and determine Estimated Weight at Delivery
- 5. Plot and interpret trends of a child's growth on the various growth charts.
- 6. Counsel a pregnant woman on her own health and nutrition using the 3A counseling steps.
- 7. Counsel a caregiver on health and adequate nutrition for her child using the 3A counseling steps.
- 8. Fill the counseling tables for pregnant woman and caregiver and take appropriate actions.
- 9. Introduce developmental milestone to mother/caregivers.
- 10. Establish and operate Nutrition Counseling Services as a part of routine MCH services.
- 11. Provide respectful care during service delivery.
- 12. Accurately fill the Nutrition and Child Health Register.

MODULE 1: Introduction of Maternal and Child Health Record Book

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	Duration	1 hour 20 mins	

1. Module description

The module aims to give a general overview of the Maternal and Child Health Record Book (MCHRB). It describes the contents of the book and explains how the health worker is expected to introduce the book to mothers and other caregivers in an effective manner. The module outlines what the MCHRB is, how to introduce MCHRB and deliver the key messages to mother, what Continuum of Care (CoC) is and how to use CoC card.

2. Objective

By the end of the module, health workers should know the content of the MCH RB and be able to introduce the MCHRB to mother.

3. Teaching and learning materials

Unit	Teaching and learning materials	
Unit 1. Knowing your MCHRB and the CoC	User guide page 4-10	
Card		
Unit 2. How to use CoC Card	MCHRB page 62-63	
	User guide page 51-53	
	Star stamp and stamp pad	
Unit 3. Introduction of MCHRB to Mother	MCHRB page 1-2, all sections from A to P for	
(Dear Mother)	explanation of color coding	
	User guide page 9-10	

4. Teaching methods

Unit 1. Knowing your MCHRB and the CoC Card

See User Guide page 4-10.

- ☐ Explain that the MCHRB
 - is a home-based health record of mothers, newborns and children which contains essential information to promote and maintain their health and their family's health.
- Explain that the MCHRB was developed to:
 - > link maternal health and child health records.
 - > promote Continuum of Care.
 - > improve communication between health providers, clients, and clients' family members.
 - > increase knowledge of mothers, fathers and families.

	A	share information for referral and counter referral. improve work efficiency of health workers.
	A A A A	scribe the content of MCHRB: Open the relevant pages of MCHRB and explain: Pink for family identification (p.3), sweet memories and CoC card. (p.60-63) Orange for pregnancy record. (p.4-19) Yellow for delivery record. (p.20-22) Blue for postnatal record for mother and child and child identification. (p.23-33) Green for records of child growth and development. (p.34-59)
		ne Continuum of Care Card (CoC Card)? en the page 62-63 of MCHRB and explain the following:
	It an es	is a card for encouraging uptake of essential health care services through the provision of n acknowledgement system for mothers and children when services are rendered. All seentials services for mothers and children are all listed at one glance. Orange for ANC rivices, yellow is for delivery, blue is for PNC services and green is for child welfare clinic tryices.
	Rea	d User Guide page 6 and 51-53 with participants.
Uni	it 2.	When and How to use the Star Stamp on the CoC Card
See	MC	HRB page 62-63 and User guide page 51-53
	the	efly explain how to use the CoC card to participants, mentioning the space for recording Date (when the visit was made) and space for placing the Star Stamp. Inform them that the ce for the star stamp would be stamped after that service is rendered.
	edu	monstrate how to give mother a star stamp when she receives essential services and cation at recommended timings (page 52 of User guide). Show the stamp and stamp pad to ticipants.
		Do not forget to acknowledge the mother's effort verbally when you give a star Alternatively, show movie on how to use CoC card (10-15 mins).
•	Pra	ctice how to use CoC card: Ask participants where health worker need to stamp; a. when mother received first ANC by 12 weeks and received health message on "importance of CoC". b. when a mother and her child receive PNC3 at 6 weeks and immunization.

	Unit 3.	Introduction	to MCHRR	(Dear Mother
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See MCHRB page 1-2, all sections from A to P for explanation of color coding and sweet memories and User guide page 9-10.

- ☐ Together with the participants, read through the "Dear mother" messages to a mother at her first ANC visit on page 1 of MCH RB (from "congratulations" to "take good care of MCHRB")
- Conduct a role play to demonstrate how to introduce the book to a mother ("Dear Mother") and discuss.
 - > Call out three facilitators and demonstrate the role play to participants

Participants for the role play: 1 Health worker, 1 pregnant woman and 1 partner visiting a health facility for the first time.

Health worker (use Page 1 of the MCHRB)

- > Welcome the mother
- > Request for a pregnancy test (if not done and if woman is not obviously pregnant)
- > Introduce MCHRB and deliver the key messages to mother

Mother and the partner:

Ask health worker questions

NOTE: Alternatively, screen "Dear Mother" short movie, if time and the conditions at the learning site allow (10-15 mins).

Let participants practice introducing the book in two different sessions and conduct feedback sessions after each role play to see if the key messages are covered appropriately.

MODULE 2: Completing recording sections in MCHRB

Duration	2 hours

1. Module description

The module covers how to complete maternal and child records in various sections of MCHRB. It covers family identification, pregnancy record, delivery record, postnatal record for mother and child, child identification, record of child growth and development pages.

2. Objective

By the end of this module, the participant should be able to complete recording of MCHRB.

3. Teaching and Learning Materials

Unit	Teaching and learning materials	
Unit 1. How to fill MCHRB	MCHRB/User guide pages:	
	Family identificationpage 3/page 11-13	
	Pregnancy recordpage 4-14/page 13-24	
	Delivery recordpage 21-22/page 25-27	
	Postnatal record for mother and child and child identificationpage	
	23-28/page 28-33	
	Records for child growth and developmentpage 43-57/page 33-50	
Unit 2, Exercise	Exercises for Recording User Guide page 54-65	

4. Teaching Methods

Unit 1. How to fill MCHRB:

See both MCHRB and User guide: Family identification...page 3/page 11-13, Pregnancy record...page 4-14/page 13-24, Delivery record...page 21-22/page 25-27, Postnatal record for mother and child identification...page 23-28/page 28-33, Records for child growth and development...page 43-57/page 33-50

Refer participants to the pages of the MCHRB and explain how to complete every field accurately.

Important things to note:

- > Most of the contents are same as the old books, only the layout is different.
- ➤ Circle around the letters (○), do not tick (图).
- When the client is not ready to give information, or when information is not available put Dash (-) in the space. Endeavor to probe for the information during subsequent visits.

- > Risk cases: if abnormalities are found during examination, record the treatment/action taken and recommendations on the progress notes.
- > Always write full name and signature in health workers name and signature spaces.

NOTE: Mention to participants that weight and length/height measurements, plotting and

nut	irition counselling will be taught in later sessions.
Un	it 2. Exercise
See	User Guide page 54-65
	Divide participants into groups and assign the different sections of the book to them. Instruct them to carefully study the sections they have been assigned and then use the case studies in the exercise and recording pages to fill out the various sections of the book. Group 1: Family Identification to Deworming, MCH RB Pgs 3-8 and 62-63. Group 2: Delivery to Discharge Summary of Child and CoC Card, MCH RB Pgs 21-22, 62-63. Group 3: Postnatal records for mother, Child Identification and Postnatal records for Child, MCH RB Pgs 23, 27-28; 62-63.
	Re-group after 25minutes, and let each group present their work, carrying along all other participants. Let participants read the scenarios aloud and fill out together.

MODULE 3: Determining Age and Measurement of height/length and weight

ı	Duration	3 hours

1. Module description

The module aims to equip health workers with skills to conduct accurate and appropriate measurement of length/neight and weight of child and mother. This will include introduction and explanation on how to use newly introduced height/length board and 2 in 1 electronic weighing scales.

2. Objective

By the end of this module, participants should be able to:

- Determine the age of a child in months
- Weigh a child
- Measure length/height of a child
- Measure height of an adult

3. Teaching and learning materials

Unit	Teaching and learning materials
Unit 1. Determining the age of a child	Participant's Manual Module 3
Unit 2. Measurement of weight	2 in 1 electronic weighing scale
Unit 3. Measurement of height/length	User guide page 41-43
	Stadiometer, infant-meter, baby doll,
Unit 4. Practice of taking measurements	Scales and Stadiometers

4. Teaching methods

Unit 1. Determining the Age of a child in completed months

- Explain to participants that they will always need to calculate the child's age at the time of visit in order to know:
 - what services to give; in the case of nutrition services whether to measure length or height.
 - > whether or not the child will need to be measured that day.
 - > how to plot, interpret the chart and provide counseling on feeding.

	Mention	
ш	Mention	ากล

the age of a child is determined using the <u>Date of Birth</u> of the child and the <u>Date of Visit</u> to <u>Clinic or CWC</u>. The age should always be calculated in <u>completed or absolute</u> months.

☐ Explain:

A child will complete a month when his/her date of birth has passed in the next month; until the last day to the next date of birth in the ensuing month. For example, if a child was born on 14th June 2008, he/she will be one (1) complete month on 14th July all the way till 13th August. On the 14th August, the child will turn two (2) complete months.

Where the exact date of birth is unknown, a local events calendar could be used to establish the child's likely date of birth.

☐ Complete this example with participants

EXAMPLE

Grace is seen at a clinic on 18th May 2016. Her mother has brought her for immunization. Grace's date of birth is already recorded on the Child Identification page of the Maternal and Child Health Record Book as 4th September 2015.

Date of birth: 4th September 2015.

So, 4th October 2015 - 1month

4th November 2015 - 2months

4th December 2015- 3 months....

4th April 2016 - ----

4th May 2016 -----

Tell participants to turn to Exercise A in their Manual and complete the Exercise on Determining Age of a Child. Discuss and summarize.

Exercise A: DETERMINING AGE

	Childs Date of birth	Date of clinic visit	Sex	Age (completed months)
Α	5 th May 2015	7 th January 2016	М	8 months

В	17th December 2014	2 nd March 2016	М	14 months
C	14 th June 2015	9 th December 2015	F	5 months
D	21st March 2013	22 nd April 2015	M	25 months
Е	20 th June 2014	7 th November 2015	F	16 months
F	2 nd February 2013	1st April 2014	F	13 months
G	8th February 2015	8 th August 2015	F	6 months

Unit 2. Measurement of Weight

ana availabla

- Explain that assessing children's growth involves taking measurements of body parts.
 - In this course, we are going to learn how to take a child's body weight and length/ height. Now, we will be talking about taking the weight of a child
 - Weight refers to how heavy a child is and is a critical indicator of growth as it's changes almost always depicts whether the child is growing adequately.

Mention that you are going to demonstrate how to weigh a child with the different scales that

> .It is more sensitive, much easier to take and less invasive compared to others.

	are available.
	Demonstrate how to use the salter hanging scale to weigh a child (Table 1). For this demonstration, prepare a "beby" that will weigh over 2 kg, such as 2-3 handbags or a bag holding several water bottles or books or a doll.
abi	e 1: PRACTICAL DEMONSTRATION OF USE OF MEASURING EQUIPMENT
HC	DW TO WEIGH A CHILD USING THE HANGING SCALE
	To set up the scale, get a strong support. Make several knots with the twine on the support and
	attach the scale with the upper hook. At the beginning of each day, hang a weighing pant on the
	scale and re-set to zero. Repeat zeroing after every 20-30 weighing.
	Have the caregiver remove the child's clothing and put on the weighing pant. Help the caregiver if necessary.
	Receive the child and hang him/her gently on the lower hook of the scale. Involve the caregiver
	in calming the child. Have her remain close to the child.
	Wait until pointer stops before taking the exact reading.
	Take the reading at eye level.
	Do not round the measurement.

holding several water bottles or books or a doll.

□ Now, demonstrate how to use the Electronic Taring scale to weigh a child (Table 2). For this demonstration, prepare a "baby" that will weigh over 2 kg, such as 2-3 handbags or a bag

Note: There are several types of electronic weighing scales. Familiarize yourself with what is in your facility before you start teaching.

Table 2: PRACTICAL DEMONSTRATION OF USE OF MEASURING EQUIPMENT: HOW TO MEASURE WEIGHT USING THE TARED SCALE

- Place the scale on a flat, hard surface, after inserting your batteries or placing it in a well-lit area (if the scale is solar powered). The solar panel should be in good light or batteries should be new
- · Mention that the mother would undress the baby.
- Put the scale on using the on/off button. If the scale is solar powered, turn it on by covering the solar panel for a second. Wait until the number 0.0 appears.
- Ask the mother to remove her shoes. Then ask her to step on the scale and stand still. Ask her to
 remain on the scale even after her weight appears, until you have finished weighing the baby.
- After the mother's weight is displayed, tare the scale by
 - o Pressing the mother/baby feature if present
 - o Pressing the two-in-one knob
 - covering the solar panel for only a second and then waiting for the number 0.0 to appear along with a figure of a mother and baby.

Note: for some of the scales, the mother/baby feature/figure will need to be pressed before weighing the mother. The taring is automatically done

- · Gently hand the "baby" to the mother. In a moment, the "baby's" weight will appear.
- Note: If the scale takes a long time to show 0.0 or a weight, it may not have enough light or the batteries may be spoilt. Reposition the scale so that the solar panel is under the most direct light available or check the batteries and ensure they are in scool working condition.
- Note: If a mother is very heavy (such as more than 100 kg) and the baby is light (such as less than 2.5 kg), the baby's weight may not register on the scale. In such cases, have a lighter person hold the baby on the scale.

Explain to participants that there are several times, for example during the ANC clinic that
they will need to weigh a woman. The procedure for using the taring scale to measure a
woman is same; only that the scale will not be tared.
Perform one demonstration for them to observe. Explain to them that they would have

Unit 3a. Measurement of Length of baby

See User guide page 41-43

- ☐ Tell participants that:
 - length and height are new measures included in the child welfare clinic services package.

The aim is to provide data to assess stunting and also as for weight, to provide information for immediate counselling of caregiver.

Explain that

> Stunting is being too short for your age (compared to the growth standards).

The effects can be:

- Short-term; poor brain development, lower IO, weakened immune system.
- > Long-term: smaller structure, lost productivity and health care costs.
- Greater risk to obesity and other NCDs.
- Could lead to pre-mature death.
- Demonstrate how to take length (Table 3). It is most helpful if you have a large doll for this demonstration.
 - > Tell participants: 'we are now going to see a demonstration of how to take length'.
 - Assemble the length board and describe the features and their functions: head rest; foot rest; metre rule.
- Explain that the length of a baby is taken with the baby lying down. And that Length is measured for children less than 2 years and height is measured for children two years till 5 years.

Table 3: PRACTICAL DEMONSTRATION OF USE OF MEASURING EQUIPMENT MEASURING A CHILD'S LENGTH USING THE LENGTH BOARD

- Place the length board on a sturdy surface, such as a table or the floor. Cover the length board with a cloth or paper towel.
- · Stand on the side where you can see the measuring tape and move the footboard.
- Explain to the mother that she will need to place the baby on the length board herself and then
 help to hold the baby's head in place while you take the measurement. Show her where to stand
 when placing the baby down. Also show her where to place the baby's head (against the fixed
 headboard).
- When the mother is ready, ask her to lay the child on his back with his head against the headboard compressing the hair.
- Quickly position the head so that the child's eyes are looking straight up (imaginary vertical line from the ear canal to the lower border of the eye socket is perpendicular to the board). The person assisting should stand behind the headboard and hold the head in this position.
- Speed is important.
- Check that the child lies straight along the board and does not change position.

- Hold down the child's legs with one hand and move the footboard with the other. You will
 have best control if you hold the child's legs at the knees (with one finger between the knees)
 and gently press them down.
- While holding the knees, move the footboard against the soles of the child's feet. The soles should be flat against the footboard, toes pointing upwards. If the child bends the toes or arches the foot, scratch the soles slightly and slide in the footboard quickly when the child straightens the toes.
- Read the measurement and record the child's length in centimetres to the last completed 0.1 cm (this is the last line that you can see).
 - Note: If the child is extremely agitated and both legs cannot be held in position, measure with one leg in position.
 - Note: It is not possible to straighten the knees of new-borns. Apply minimum pressure because new-borns are fragile and could be injured easily.

Note: If the child whose length you measured is 2 years or older, subtract 0.7 cm from the length and record the result as height on the Growth Parameters Table in the MCH RB.

Figure 1: Taking the Length of a Baby



Unit 3b. Measurement of height of a child

- Emphasize that children 2 years and older are measured standing. This is called height. Prior to measuring the height ensure that there is a wall where the board can lean. The length board is called stadiometer if it is used to measure height.
- Demonstrate use of the height board and mention the key points below (Table 4). It is also helpful if you have a child or large doll for this demonstration.

Table 4: PRACTICAL DEMONSTRATION OF USE OF MEASURING EQUIPMENT: MEASURING A CHILD'S HEIGHT USING THE HEIGHT BOARD

- Place the height board with its back against the wall, so that it sits flat on the floor and cannot tip backward.
- Place yourself to the right of the height board, kneeling down so that your head is at the level of the child's head.
- Position the "child" (doll) on the baseboard with the back of the head, shoulder blades, buttocks, calves, and heels touching the vertical board. These are known as the five critical points in height measurement
- Ask the person assisting to kneel down, hold the child's knees and feet in place, and to focus the child's attention and soothe the child as needed.
- Position the child's head and hold the chin in place with your left hand. Push gently on the tummy to help the child stand to full height.
- With your right hand bring down the headboard to rest on the top of the head. Read and record
 the measurement to the last completed 0.1 cm. This is the last line that you can actually see.

Figure 2: Measuring standing Height of a child



Unit 3c. Measuring Height of Adult

Explain the following to participants: While the measurement of height of children might be simple, it is not so for adults, especially adult women due to the variability of body shapes. However, for the adult woman, efforts should be made to get at least two of the five critical points to touch the board – heels, calf, buttocks, shoulder and back of head.
You will require two health practitioners, one holding the participant's head in the correct position, the other reading the value.
Demonstrate how to measure height of an adult (Table 5).

Table 5: PRACTICAL DEMONSTRATION ON MEASUREMENT OF AN ADULT'S HEIGHT: MEASURING THE HEIGHT OF AN ADULT

- Explain you will want the participant to stand as tall and straight as possible.
- Ensure that heavy outer clothing and shoes are removed, undo or adjust hairstyles and remove
 hair accessories that interfere with measurement.
- Ask the participant to stand on the stadiometer, facing forward as tall and straight as possible
 with their arms hanging loosely at their sides.
- Their feet should be flat on the base plate of the stadiometer and positioned slightly apart, in line
 with their hips, to aid balance. There will be some exceptions (e.g. participants with a larger
 chest/belly).
- Their knees should be straight, and their buttocks and shoulders should touch the stadiometer.
 Again, there may be some exceptions (e.g. participants with a bigger bottom).
- Ensure the participant's head is in the "Frankfurt plane". This position is an imaginary line from the centre of the ear hole to the lower boarder of the eye socket.
- One measurer may manipulate the participant's head in his/her hands by placing the heels of his/her palms to either side of the face and the fingers of each hand resting on the back of the skull above the neck. Firmly but gently, apply upward pressure lifting their head to the maximum height.
- Both measurers can check for any bending of the knees, slumping of shoulders or raising of heels
- Ask the participant to take a deep breath and hold.
- The assisting measurer standing at the side should then bring the head plate down onto the head, ensuring it rests on the crown of the head.
- The person should then read the measurement. Health worker's eyes should be level with counter/pointer and measurement read to the nearest 0.1 cm.

Unit 4. Practice weighing, measuring length/height of children and measuring weight and height of women

- Set up 3 stations of weighing and length/height measurement equipment. Divide participants into groups and assign them to a station. Give them recording sheets and let them record their measurements taken on it.
- Explain to them that they will have more opportunities to practice the measurements during the clinical practice in a facility.

MODULE 4: Plotting and Interpretation

Duration	1 hour and 30 minutes
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1. Module description

The module describes and explain how to plot measured weight and height/length of child and interpret the child's growth, as well as to calculate BMI and determine estimated desired weight at delivery.

2. Objective

By the end of this module, health workers should be able to:

- plot height/length and weight and interpret the growth for child
- explain Growth Monitoring and Promotion and the rationale for conducting GMP
- appropriately fill the Nutrition and Child Health Register
- determine estimated desired weight at EDD for a pregnant woman.

3. Teaching and learning materials

Unit	Teaching and learning materials
Unit 1. Plotting	MCHRB page 43-50
Unit 2. Interpretation of child growth	User Guide page 34-38
Unit 3. Practice	User Guide page 62
	Color copies of 4 growth charts for practice
Unit 4. Growth Monitoring and Promotion	User guide pages 33
Unit 5. The Nutrition and Child Health register	Copies of the Nutrition and Child Health
	Register (A3 size)
Unit 6. Determine estimated desired weight at EDD	MCHRB page 6
	User Guide page 16-17
	BMI Job Aid

4. Teaching methods

Unit 1, Plotting: Discussions and demonstration

See MCHRB page 43-50 and User Guide page 36-38

- ☐ Introduce schedule/timing for measurement and recording in User Guide pg. 33-34.
- Place A3 copies of Growth Charts on the wall and assign about 6-8 participants to each poster.
 You may allow participants to open to Growth charts on MCHRB page 45-48.

- Explain the different features on the char: through a participatory approach. Make sure to explain the:
 - x-axis the horizontal reference line at the bottom of the graph. In the Maternal and Child Health Record Book charts, the x-axes show age in completed months.
 - y-axis the vertical reference line at the far left of the graph. In the Maternal and Child Health Record Book charts, the y-axes show length/height or weight.
- ☐ Explain plotting of the growth charts and demonstrate using "example" in page 36 of User Guide.
 - Plotting is the process of combining the weight/length/height and age of a child on the growth chart to be able to determine whether growth has occurred this month.
 - A plotted point the point on a graph where a vertical line drawn from the x-axis (e.g. age) intersects with a horizontal line drawn from a measurement on the y-axis (e.g. weight).

Important Things to Note when plotting

Make sure to state the following:

- > Use the appropriate growth charts pages for boy or girl.
- > Write the measured weights/heights in the boxes at the bottom of the chart.
- > Join the dots/plots for successive visits.
- If the client missed one or two scheduled measurements, do not join the dots.

Unit 2. Interpret a plotted point and a set of plotted points

See MCHRB page 43-50 and User Guide page 34-38

Ask participants to open Pages 45-48 of the MCHRB for the Growth Charts. The curved lines printed on the growth charts will help you interpret the plotted points.

☐ Tell participants:

- The curved lines printed on the growth charts will help you interpret the plotted points that represent a child's growth status.
- The line labelled 0 on each chart represents the median, which is, generally speaking, the average.
- The other curved lines are z-score lines, which indicate distance from the average. The median and the z-score lines on each growth chart were derived from measurements of children in the WHO Multicentre Growth Reference Study.
- ➤ Z-score lines on the growth charts are numbered positively (2, 3) or negatively (, -2, -3).
- ➤ In general, a plotted point that is far from the median in either direction (for example, close to the 3 or -3 z-score line) may represent a growth problem

> To interpret points, consider other factors, such as the growth trend and the health condition of the child.

Table for Interpretation of Plotted points

WEIGHT-FOR-AGE		LENGTH/HEIGHT-FOR-AGE	
Classification Z-Score		Classification	Z-score
	From -2 SD to +2 SD and		
Normal	above	Normal	From -2 SD to +2 SD
Moderate underweight	Below -2 SD to -3 SD	Moderate stunting	Between -2 SD and -3 SD
Severe underweight Below -3SD		Severe stunting	Below -3SD
WEIGHT-FOR-LENGTH/HEIGHT		Tall	Between +2 SD and +3 SD
Classification Z-score		Very tall	Above +3 SD
Normal From -2 SD to +2 SD			
Moderate wasting	Between -2 SD and -3 SD		
Severe wasting Below -3SD			
Overweight Between +2 SD and +3 SD			
Obese	Above +3 SD		

^{*}The z-score label in this column refers to a range. For example 'above 2' means 2.1 to 3.0; below -2' refers to -2.1 to -3.0, etc.

 \square Demonstrate how to plot using the following information.

AGE OF CHILD	WEIGHT	LENGTH
(MONTHS)	(KG)	(CM)
3	5.9	63
18	16.0	102.7

☐ Refer to User Guide pg. 34-38 and discuss the interpretation of plotted points

⇒Teach the 3 simple patterns of interpretation of curves (User guide page 38, MCHRB page 45)

Unit	3. Practice
	Ask the groups to complete exercise 4-assignment 1 in the User guide page 62
1	NOTE: An alternative way to deliver the content of Unit 1 and 2 is to show the short movie (introduction and step by step guide of measurement, plotting and interpretation), conduct the group practice session of height/length and weight measurement, and do exercise 4-assigment 1 in the User guide page 62.
Uni	t 4. Explain Growth Monitoring and Promotion
See .	Participant's Guide Module 4, Unit 4; User Guide pg 33
	Brainstorm with participants 'What Growth Promotion is and then what Growth Monitoring and Promotion is.
	Symmetrize and explain using the basic information below

- standard through periodic anthropometric measurements in order to assess growth adequacy and identify faltering at early stages.
- > Assessing growth allows capturing growth faltering before the child reaches the status of under-nutrition. > Growth Monitoring and Promotion is a prevention activity that uses growth monitoring to facilitate communication and interaction with caregivers and to generate adequate

> Growth Monitoring is the process of tracking how well child's growth by comparing it to a

- o Increased caregiver's awareness about child growth.
- action to promote child growth through: o Improved caring practices.
 - Increased demand for other services as needed.
 - o Appropriate actions base on correct interpretation, counseling and follow-up achieve adoption of recommended behaviors that support optimal growth of the child, but also the entire household.

Unit 5. The Nutrition and Child Health register

Advance preparation: Make copies of the Nutrition and Child Health Register and the
Nutrition and Child Health Monthly form.
Put participants into groups of about 5-8 per group. Give each group some copies of the
Register and the Monthly Form.

☐ Explain

> The Nutrition and Child Health Register is the document where in which information taken during the Growth Monitoring and Promotion sessions are recorded on a daily basis at the facility level. The data is then collated at the end of the month onto the Child Health and Nutrition and Child Health forms and entered onto the online software.

>	The Register replaces the old one and takes information about the child from birth till 5
	years on a single row.

Introduce the participants to how the Register	r should be filled during service delivery: going
through the different sections e.g. Registration	. Growth Monitoring, Immunization etc.

The Nutrition and Child Health Register:

Registration Page:

				REGIS	STRA	TION	DETA	ILS			
Serial No.	Child Regis. No.	Child's Name	Date of Birth	Date First Seen	Sex	Birth Weight	Birth Length	Birth Regis. No.	Sickling Status	Mothers Name	Tel. No./Tra ceable Address

The Nutrition and Child Health Register: Growth Monitoring 0-11; 12-23; 24-59 months

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Put participants into groups of 8-10 and give them copies of the filled register below. Allow participants to identify the gaps and strengths on the filled register for 15 minutes.

REGISTRATION PAGE

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Conduct a plenary session on the gaps and strengths identified by the various groups for about 15 minutes.
CWC register problems
Some Birth weights not recorded
 Sex not correctly recorded or missing (Isabella is male instead of female, Angel has no sex)
Empty spaces in registration form
■ Vitamin A not recorded
 Some dates not recorded
 Lengths not taken or recorded
 Complementary feeding started, answer should be a yes or no but dates have been recorded instead
☐ Summarize and show participants how to summarize the data from the Register onto the Monthly Nutrition and Child Health Form.
Unit 6. Determine estimated desired weight at EDD and interpret
See MCHRB page 6 and User Guide page 16-17
Explain the importance of managing weight during pregnancy to improve outcome and promote child
and maternal health,
Explain that at the first ANC visit, health worker should set client's weight gain goal during
pregnancy based on the Body Mass Index (BMI) category determined by 12 weeks of pregnancy
talk to them about weight gain at each trimester (1~2 kg in 1st trimester and rest in 2 nd and 3 nd
trimester) and stress the importance of eating a nutritionally adequate meal and being active during
pregnancy as a part of nutrition education.
Explain how to determine estimated desired weight at EDD:
There are three ways to be able to determine or obtain the body mass index of the pregnant woman. Remember you will determine the BMI only if the woman comes before 12 weeks.
Step 1: Determine the BMI and Classify a. Calculate the BMI using the formula
a. Calculate the DMI using the formula
BMI = Weight (kg)/Height (m ²)
☐ Explain to participants there can be a simple way of using the formula on a calculator, which they
have on their mobile phones
If you have a mobile phone or a calculator, you can easily calculate the BMI. You should divide
weight by height twice. For example, weight 53 kg and height 162. The calculation will be 53+1.62 +1.62=20.20.

> Classify using the Table below:

Table 6: Classification of BMI

BMI at ANC1 = Weight (kg)	
<18.5	Underweight
18.5 - 24.9	Normal
25 - 29.9	Overweight
1 30	Obese

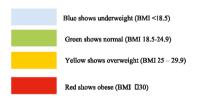
b. How to use the BMI Chart

The BMI Chart is a tool used to determine how appropriate one's weight is compared to the height. The standardized BMI chart is split into four categories:

- Underweight = a BMI score less than 18.5 (note that some experts feel this number should be closer to 19, as a BMI of 18.5 is very rarely a healthy weight for most adults)
- > Normal, healthy weight = BMI score between 18.5-24.9
- > Overweight = BMI between 25-29.9
- > Obesity = BMI of 30 or greater

To use the Chart.

- 1. Find the client's height in the left-hand column (1 meter=100cm).
- 2. Find the client's weight in the corresponding height row.
- 3. Read off the corresponding BMI value.



- Using the example below, demonstrate how to use the chart.
 - o woman's with weight 50 kg and height 153 cm

 $Table\ 7:\ The\ Body\ Mass\ Index\ (BMI)\ Chart:\ BMI\ Values\ corresponding\ to\ height\ and\ weight$

16.0 17.0 18.5 19.0 20.0 21.0 22.0 23.0 24.0 25.0 26.0 27.0 28.0 29.0 30.0 Underweight Normal Overweight Obese Height(cm) Weight (kg) 51.0 140.0 31.4 33.3 36.3 37.2 39.2 41.2 43.1 45.1 47.0 49.0 52.9 54.9 56.8 58.8 141.0 31.8 33.8 36.8 37.8 39.8 41.8 43.7 45.7 47.7 49.7 51.7 53.7 55.7 57.7 59.6 142.0 32.3 34.3 37.3 38.3 40.3 42.3 44.4 46.4 48.4 50.4 52.4 54.4 56.5 58.5 60.5 143.0 32.7 34.8 37.8 38.9 40.9 42.9 45.0 47.0 49.1 51.1 53.2 55.2 57.3 59.3 144.0 33.2 35.3 38.4 39.4 41.5 43.5 45.6 47.7 49.8 51.8 53.9 56.0 58.1 60.1 62.2 145.0 33.6 35.7 38.9 39.9 42.1 44.2 46.3 48.4 50.5 52.6 54.7 56.8 58.9 61.0 63.1 146.0 34.1 36.2 39.4 40.5 42.6 44.8 46.9 49.0 51.2 53.3 55.4 57.6 59.7 61.8 63.9 147.0 34.5 36.7 40.0 41.1 43.2 45.4 47.5 49.7 51.9 54.0 56.2 58.3 60.5 62.7 64.8 148.0 35.0 37.2 40.5 41.6 43.8 46.0 48.2 50.4 52.6 54.8 57.0 59.1 61.3 63.5 65.7 149.0 35.5 37.7 41.1 42.2 44.4 46.6 48.8 51.1 53.3 55.5 57.7 59.9 62.2 64.4 66.6 150.0 36.0 38.3 41.6 42.8 45.0 47.3 49.5 51.8 54.0 56.3 58.5 60.8 63.0 65.3 67.5 151.0 36.5 38.8 42.2 43.3 45.6 47.9 50.2 52.4 54.7 57.0 59.3 61.6 63.8 66.1 68.4 42.7 43.9 46.2 48.5 50.8 53.1 152.0 37.0 39.3 55.4 57.8 60.1 62.4 64.7 67.0 69.3 153.0 37.5 39.8 43.3 44.5 46.8 49.2 51.5 53.8 56.2 58.5 67.9 70.2 60.9 63.2 65.5 154.0 37.9 40.3 43.9 45.1 47.4 49.8 52.2 56.9 59.3 61.7 64.0 68.8 57.7 155.0 38.4 40.8 44.4 45.6 48.1 50.5 52.9 55.3 60.1 62.5 64.9 67.3 69.7 72.1 156.0 38.9 41.4 45.0 46.2 48.7 51.1 53.5 56.0 58.4 60.8 63.3 65.7 68.1 70.6 73.0 157.0 39.4 41.9 45.6 46.8 49.3 51.8 54.2 56.7 61.6 66.6 73.9 59.2 64.1 69.0 71.5 158.0 39.9 42.4 46.2 47.4 49.9 52.4 54.9 57.4 59.9 62.4 64.9 67.4 69.9 72.4 74.9 159.0 40.4 43.0 46.8 48.0 50.6 53.1 55.6 58.1 75.8 60.7 63.2 65.7 68.3 70.8 73.3 160.0 41.0 43.5 47.4 48.6 51.2 53.8 56.3 58.9 61.4 64.0 66.6 69.1 71.7 74.2 76.8 161.0 41.5 44.1 48.0 49.2 51.8 54.4 57.0 59.6 62.2 64.8 67.4 70.0 72.6 75.2 77.8 162.0 42.0 44.6 48.6 49.9 52.5 55.1 57.7 60.4 63.0 65.6 68.2 70.9 73.5 76.1 78.7 163.0 42.5 45.2 49.2 50.5 53.1 55.8 58.5 63.8 66.4 69.1 71.7 74.4 77.1 79.7 164.0 43.0 45.7 49.8 51.1 53.8 56.5 59.2 64.6 67.2 69.9 72.6 75.3 78.0 80.7 165.0 43.6 46.3 50.4 51.7 54.5 57.2 59.9 62.6 65.3 70.8 73.5 76.2 79.0 81.7 68.1 166.0 44.1 46.8 51.0 52.4 55.1 57.9 60.6 63.4 66.1 68.9 71.6 74.4 77.2 79.9 82.7 167.0 44.6 47.4 51.6 53.0 55.8 58.6 61.4 64.1 66.9 69.7 72.5 75.3 78.1 80.9 83.7 168.0 45.2 48.0 52.2 53.6 56.4 59.3 62.1 64.9 67.7 70.6 73.4 76.2 79.0 81.8 84.7 169.0 45.7 48.6 52.8 54.3 57.1 60.0 62.8 65.7 68.5 71.4 74.3 77.1 80.0 82.8 85.7

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177.0	50.1	53.3	58.0	59.5	62.7	65.8	68.9	72.1	75.2	78.3	81.5	84.6	87.7	90.9	94.0
178.0	50.7	53.9	58.6	60.2	63.4	66.5	69.7	72.9	76.0	79.2	82.4	85.5	88.7	91.9	95.1
179.0	51.3	54.5	59.3	60.9	64.1	67.3	70.5	73.7	76.9	80.1	83.3	86.5	89.7	92.9	96.1
180.0	51.8	55.1	59.9	61.6	64.8	68.0	71.3	74.5	77.8	81.0	84.2	87.5	90.7	94.0	97.2
181.0	52.4	55.7	60.6	62.2	65.5	68.8	72.1	75.4	78.6	81.9	85.2	88.5	91.7	95.0	98.3
182.0	53.0	56.3	61.3	62.9	66.2	69.6	72.9	76.2	79.5	82.8	86.1	89.4	92.7	96.1	99.4
183.0	53.6	56.9	62.0	63.6	67.0	70.3	73.7	77.0	80.4	83.7	87.1	90.4	93.8	97.1	100.5
184.0	54.2	57.6	62.6	64.3	67.7	71.1	74.5	77.9	81.3	84.6	88.0	91.4	94.8	98.2	101.6
185.0	54.8	58.2	63.3	65.0	68.5	71.9	75.3	78.7	82.1	85.6	89.0	92.4	95.8	99.3	102.7
186.0	55.4	58.8	64.0	65.7	69.2	72.7	76.1	79.6	83.0	86.5	89.9	93.4	96.9	100.3	103.8
187.0	56.0	59.4	64.7	66.4	69.9	73.4	76.9	80.4	83.9	87.4	90.9	94.4	97.9	101.4	104.9
188.0	56.6	60.1	65.4	67.2	70.7	74.2	77.8	81.3	84.8	88.4	91.9	95.4	99.0	102.5	106.0
189.0	57.2	60.7	66.1	67.9	71.4	75.0	78.6	82.2	85.7	89.3	92.9	96.4	100.0	103.6	107.2
190.0	57.8	61.4	66.8	68.6	72.2	75.8	79.4	83.0	86.6	90.3	93.9	97.5	101.1	104.7	108.3
191.0	58.4	62.0	67.5	69.3	73.0	76.6	80.3	83.9	87.6	91.2	94.9	98.5	102.1	105.8	109.4
192.0	59.0	62.7	68.2	70.0	73.7	77.4	81.1	84.8	88.5	92.2	95.8	99.5	103.2	106.9	110.6
193.0	59.6	63.3	68.9	70.8	74.5	78.2	81.9	85.7	89.4	93.1	96.8	100.6	104.3	108.0	111.7
194.0	60.2	64.0	69.6	71.5	75.3	79.0	82.8	86.6	90.3	94.1	97.9	101.6	105.4	109.1	112.9
195.0	60.8	64.6	70.3	72.2	76.1	79.9	83.7	87.5	91.3	95.1	98.9	102.7	106.5	110.3	114.1
196.0	61.5	65.3	71.1	73.0	76.8	80.7	84.5	88.4	92.2	96.0	99.9	103.7	107.6	111.4	115.2
197.0	62.1	66.0	71.8	73.7	77.6	81.5	85.4	89.3	93.1	97.0	100.9	104.8	108.7	112.5	116.4
198.0	62.7	66.6	72.5	74.5	78.4	82.3	86.2	90.2	94.1	98.0	101.9	105.9	109.8	113.7	117.6
199.0	63.4	67.3	73.3	75.2	79.2	83.2	87.1	91.1	95.0	99.0	103.0	106.9	110.9	114.8	118.8
200.0	64.0	68.0	74.0	76.0	80.0	84.0	88.0	92.0	96.0	100.0	104.0	108.0	112.0	116.0	120.0
201.0	64.6	68.7	74.7	76.8	80.8	84.8	88.9	92.9	97.0	101.0	105.0	109.1	113.1	117.2	121.2
202.0	65.3	69.4	75.5	77.5	81.6	85.7	89.8	93.8	97.9	102.0	106.1	110.2	114.3	118.3	122.4
203.0	65.9	70.1	76.2	78.3	82.4	86.5	90.7	94.8	98.9	103.0	107.1	111.3	115.4	119.5	123.6
204.0	66.6	70.7	77.0	79.1	83.2	87.4	91.6	95.7	99.9	104.0	108.2	112.4	116.5	120.7	124.8
205.0	67.2	71.4	77.7	79.8	84.1	88.3	92.5	96.7	100.9	105.1	109.3	113.5	117.7	121.9	126.1
206.0	67.9	72.1	78.5	80.6	84.9	89.1	93.4	97.6	101.8	106.1	110.3	114.6	118.8	123.1	127.3
207.0	68.6	72.8	79.3	81.4	85.7	90.0	94.3	98.6	102.8	107.1	111.4	115.7	120.0	124.3	128.5
208.0	69.2	73.5	80.0	82.2	86.5	90.9	95.2	99.5	103.8	108.2	112.5	116.8	121.1	125.5	129.8
209.0	69.9	74.3	80.8	83.0	87.4	91.7	96.1	100.5	104.8	109.2	113.6	117.9	122.3	126.7	131.0
210.0	70.6	75.0	81.6	83.8	88.2	92.6	97.0	101.4	105.8	110.3	114.7	119.1	123.5	127.9	132.3

c. How to use a BMI wheel

The BMI wheel is a tool to help health workers to quickly determine the Body Mass Index (BMI) of the pregnant woman. The outer disk shows weight in kilo grams and inner disk shows height in meters.

The BMI wheel is a type of Chart; only in a wheel form.



☐ State the following

- The BMI wheel is a tool to help health workers to quickly determine the Body Mass Index (BMI) of the pregnant woman. The outer disk shows weight in kilo grams and inner disk shows height in meters.
- After measuring weight and height of the client, you will match her weight and height on the wheel and determine her BMI category.
- To classify, flip the wheel. The table at the backside of the wheel shows BMI categories. After determination of the BMI of the woman, compare the value obtained to the standard values at the back of the wheel.

Example: if a woman's weight is 50 kg and beight is 153 cm, find 50 kgs gridline of the outer disk, and move inner disk until 1.53 m is aligned with 50 kgs. Then look at the BMI category pointed by the arrow. It points at "ideal body weight" category, which means her BMI is "normal"

Step 2: Determine Desired weight at delivery

☐ Use Table 8 to show participants how to determine the EDD at delivery.

- Add the weight measured at ANC1 at or before 12 weeks to the minimum and maximum weight gain expected.
- Record the weight range: minimum and maximum on Page 6 at the Estimated weight at EDD section
- Remember to compare weight measured during all ANC visits to the EDD range. A weight below the minimum recorded near term requires intervention. Similarly, a weight above or close to the maximum before term should be investigated and appropriate action(s) taken.

Table 8: BMI classification and estimated desired weight at EDD

BMI at ANC1 (by 12 weeks)	Estimated desired weight
= Weight (kg) / Height (m) ²	at EDD (range)
< 18.5	From weight at ANC 1 + 12.5kg
Underweight	to weight at ANC 1 + 18kg
18.5 - 24.9	From weight at ANC 1 + 11.5kg
Normal	to weight at ANC 1 +16kg
25 - 29.9	From weight at ANC 1 + 7 kg
Overweight	to weight at ANC 1 + 11.5kg
≥ 30	From weight at ANC 1 + 5kg
Obese	to weight at ANC 1 + 9 kg

- Practice: calculation of BMI and estimated desired weight with the following information, (Answers are after the table 8.):
 - · Question A: 21 yearold, 9 weeks pregnancy, height 156cm, weight 44kg
 - · Question B: 23 yearold, 10 weeks pregnancy, height 151cm, weight 58kg
 - · Question C: 29 year old, 8 weeks pregnancy, height 167cm, weight 68kg
 - · Question D: 35 year old, 11 weeks pregnancy, height 162 cm, weight 72kg
 - · Question E: 31 year old, 8 weeks pregnancy, height 169 cm, weight 90kg

Answers to Practice of BMI calculation and EDD

	BMI	Estimated desired weight
Question A	18.08 Underweight	56.5kg - 62kg
Question B	25.44 Overweight	65kg - 69.5kg
Question C	24.38 Normal	79.5 - 84kg
Question D	27.43 Overweight	79 - 83.5kg
Question E	31.51 Obese	95 - 99kg

MODULE 5: Basic Nutrition and key Health and Nutrition Messages

Duration	2 hours 30 mins

1. Module description

The module covers discusses basic maternal and child nutrition and, and delivery of health and nutrition messages that should be delivered to pregnant women/caregivers as well as the recommended timings to deliver each of the key messages. It includes messages for maternal and child health and nutrition and recommended timings to deliver each of the topic. It also explains the components of nutriring care and assessment of developmental milestones.

2. Objective

By the end of this module, participants should be able to understand basic maternal and child nutrition and deliver timely and appropriate health and nutrition messages, as well as understand components of nurturing care, assess child developmental milestones and give recommendations for childcare.

3. Teaching and learning materials

5. Teaching and learning materials	
Unit	Teaching and learning materials
Unit 1. Basic nutrition	Participant's Manual Module 5 Unit 1 Flip charts, CIYCF training aid module 7, cut outs of key complementary feeding Answer sheet of the key complementary feeding practice group work (for facilitator) Food items or food cards
Unit 2. Health and nutrition messages for pregnant woman, after delivery, postnatal and child health	MCHRB page 1, 15- 20, 29-42, 51, 58 User Guide 21, 32-33
Unit 3. Components of Nurturing Care	Participant's Manual Module 5 unit 3
Unit 4. Assessment of Developmental Milestones and recommendations for childcare	MCHRB page 58-59 User guide page 50-51

4.	Teaching methods
Uni	it 1. Basic Nutrition
Sec	tion 1: Nutrition Requirements and Feeding/Dietary Recommendations in Pregnancy.
Lac	tation, Infancy and Childhood
Sec	tion 1a: Nutritional Requirements in Pregnancy
	Explain why nutrient requirements change during pregnancy and the need for improved
	nutrition.
➤	Pregnancy is characterised by high growth rate, which usually makes that woman have
	increased nutritional needs. This is due to growing foetus, expanding blood volume and need
	to lay down fat for the lactation period and for maternal needs if woman is undernourished or
	an adolescent.
➤	During the period of pregnancy, a woman should gain weight steadily; at least 12.5kgs for the
	whole pregnancy period.
	During the first three months, weight gain a total of 1-2 kg is expected, and thereafter
	about 0.5kg every week for the rest of her pregnancy.
	o If she has already gained 11 kg after six-seven months, she should continue to gain
	moderately until delivery. The baby puts on most of its weight during the last few months.
	 Excessive weight gain during pregnancy can increase baby's risk of health problems such
	as foetal macrosomia. The pregnant women might also be at increased risk of pregnancy
	induced hypertension, gestational diabetes, and prolonged labour.
Þ	If a woman is undernourished, her ability to survive childbirth and give birth to a healthy
	baby is weakened, translating into increased morbidity and mortality of mothers and their
	infants.
×	What a woman eats when she is pregnant can have a profound and lasting effect on her health
	and the health of her child. Foetal growth is negatively affected in the presence of poor
	nutrition.
>	Consequences of poor nutrition during pregnancy includes:
	For the pregnant woman:
	☐ Increased risk of maternal complications and death
	□ Increased infection
	□ Anaemia
	☐ Lethargy and weakness, lower productivity
	For the foetal and infant health
	☐ Increased risk of foetal, neonatal, and infant death
	 Intra-uterine growth retardation, low birth weight, prematurity.

☐ Birth defects☐ Cretinism

		□ Brain damage
		☐ Increased risk of infection
Se	ctio	n 1b: Meeting needs during Pregnancy
	Ex	plain to participants that during the pregnancy,
	>	There is increased need for: energy, protein, essential fatty acids, vitamin A, vitamin C, B vitamins (B1, B2, B3, B5, B6, B12, folate), calcium, phosphorus, iron, zinc, copper and
		iodine. Therefore, the pregnant woman should eat at least one additional meal (200 Kcal) per day; and should include foods that are good sources of iron and other micronutrients.
		cplain and discuss the dietary recommendations during pregnancy (use page 17 of CHRB).
Se	ctlo	n 1c: Meeting needs during Lactation
	Ex	plain that
	>	Cost of breastmilk production and woman's own needs; her nutritional status (especially for underweight women) in addition to her own increases her requirements. Therefore, the lactating woman should increase energy intake by about 505keal, translating into 2 additional meals per day. This should be increased if the woman is undernourished or an adolescent.
	A 1	low participants to read one after the other
No	nte:	for all pregnant and lactating women:
	\triangleright	Use iodised salt for their cooking.
	>	Reduce energy expenditure: e.g. receive support from family to reduce household chores and take rest periods.
	\triangleright	Eat vitamin A rich foods (e.g. plant/animal sources).
	>	Eat a variety of foods (by meal and across the day).
	>	Take your Iron and Folic Acid tablets as recommended.
		(See Pg 17 and 29 of MCHRB)

Section 1d: Requirements for the HIV+ Mother

- ☐ Discuss briefly the recommendations for the HIV+ mother
 - HIV infection increases energy requirements. Reduced appetite, poor nutrient absorption, and physiological changes can lead to weight loss and malnutrition in HIV-infected people. There is less chance of an HIV-positive woman passing the virus to her baby if she is healthy.
 - Nutritional requirements of HIV-positive women are greater and should be met by increased intakes of nutritious foods. See the table below:

signs associated with the infection)

HIV-POSITIVE ASYMPTOMATIC (not showing HIV-POSITIVE SYMPTOMATIC (showing signs associated with the infection)

At least 3 or 4 meals and 2 snarks

At least 4 meals and 2 snacks

Section 1e: Recommendations for Calcium

- ☐ Discuss the recommendations for Calcium Supplementation in Ghana. Explain to participants that:
 - > Calcium supplementation is not recommended routinely during pregnancy or lactation and that emphasis should be placed on dietary sources.
 - > They should supplement only when dietary sources are unable to provide adequate amounts according to the schedule below:
 - Calcium supplements equivalent to I.5 2 mg elemental calcium daily (in 3-doses).
 - · And they need is to leave at least 2 hours in-between taking calcium supplements and taking iron supplements.

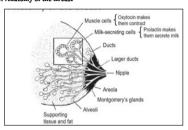
Section 1f: Nutritional Requirements and Feeding Recommendation from Infancy to 23 months

See MCHRB page 29 and 31, 36-41

- ☐ Explain that
 - > Meeting Nutritional requirements and feeding recommendations during infancy and childhood are to ensure adequate growth and development: growth in length, weight, brain development.
 - > The needs are different for different ages and that there are additional increases during the periods of growth spurts and illness.
- ☐ Explain the Recommendations for feeding a baby from 0-6 months
 - Exclusive breastfeeding is recommended for infants from birth till six months.
 - o Breastmilk supplies all the energy and nutrient needs of the infant from birth up to 6months and even more.
 - The body adapts to the changing needs of the infant... first day-very little is needed.
 - Refer to Feeding Recommendations on Pg 29 and 31 of MCHRB on breastfeeding
 - ☐ Briefly explain the Recommendations for an HIV exposed baby
 - > HIV positive mothers should exclusively breastfeed their infants for the first 6 months of life, introduce appropriate complementary foods thereafter and continue breastfeeding for the first 12 months of life.

	exclusive breastfeeding reduces the risk of death from diarrhoea, pneumonia and malnutrition among babies born to HIV positive mothers in the same way that it protects babies of HIV negative mothers against infections.
	Discuss the Recommendations from 6 months
	From 6 months, breastmilk is no longer adequate to supply all the nutrients and energy the baby needs. It however supplies about 60% energy up to 1 year and about 40% energy from 1 up to 2 years. There is the need to fill gap with family foods to complement BM until child fully transits onto family foods. This is called Complementary feeding.
	It is expected that complementary foods should be rich in energy, protein and micronutrients (particularly iron, zinc, calcium, vitamin A, vitamin C and folate); not spicy or salty; easy for the child to eat; liked by the child and locally available and affordable.
	Mention and Explain the Key Complementary Feeding Recommendations
Ξ	> Recommendations for feeding the child from 6 months is based on Age of child and
	describes
	♦ Frequency (number) of meals per day
	♦ Amount to be eaten at a meal
	♦ Texture (consistency)
	♦ Variety of meals (the 4-star diet)
	♦ Responsive feeding and
	♦ Hygiene practices
	Refer to Pages 36 and 37 and 38 on Infant Feeding recommendations of MCHRB.
•	Refer to pages 39-41 of MCHRB and also explain the need to reduce exposure to illnesses and infections.
Sec	ction 2: Lecture: Breastfeeding
	-
	Module 5 Unit 1 Section 2.
	Allow one participant to explain the diagram and describe how breastmilk produced and
	made available to baby.
	Discuss and summarize

Figure 3: Anatomy of the Breast



- ☐ Explain the hormonal controls in breast milk production and breastfeeding.
 - Breastmilk production is controlled by hormonal impulses in the brain. When a child suckles, impulses are sent to the brain to release a hormone called 'prolactin', which acts on the alveoli to produce milk.
 - > The suckling impulses causes the brain to produce another hormone, 'oxytocin', which acts on the myoepithelial cells to contract, pushing out the milk.

Figure 4: Hormonal Controls during Breastfeeding - Prolactin

. Secreted during and after feed to produce next feed

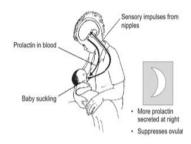
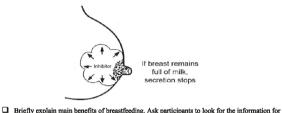


Figure 5: Hormonal Controls during Breastfeeding -Oxytocin

Works before or during feed to make milk flow
 Helping and hindering of oxytocin reflex



Figure 6: Action of Inhibitor in Breastmilk



recap the following day. ☐ Refer participants Lancet Series. 2016 https://www.thelancet.com/series/breastfeeding > Breast milk has perfect nutrients, is easily digested, efficiently used and protects against infection. > Breastfeeding helps bonding and development, helps delay a new pregnancy, protects mothers' health and is priceless. ☐ Brainstorm the key breastfeeding recommendations and discuss how to operationalize them. Key Breastfeeding Recommendations ➤ Breastfeeding communication during ANC Early Skin-to-skin contact and Initiation of breastfeeding > Avoidance of pre-lacteal feeding, unless medically indicated. Promotion Exclusive Breastfeeding ➤ Promotion of Demand feeding: frequently, both day and night (10 – 12 times) > Encourage emptying of one breast completely before offering the other: Let baby come off breast by itself. > Ensure Good positioning and attachment ☐ Teach Breastmilk Expression. Alternatively, show the 'Breastmilk Expression Movie' and discuss Discuss the causes of 'Not enough milk' and the various breast conditions- Engorgement, Sore

nipples, Blocked ducts/Mastitis and ways to address them.

Section 3: Complementary Feeding - Key Practices

(ii) and	Advance preparation: (i) Prepare cut outs of key complementary feeding for this session. (ii) Prepare 3-5 flipcharts with columns: Age, Frequency, Amount, Texture (thickness/consistency), and Variety and Rows: starting at 6 months, 6 up to 9 months, 9 up to 12 months, and 12 up to 24 months.		
	Review the definition of complementary feeding		
0	Review with participants the key Complementary Feeding recommendations learnt in Section 1. Probe until the following are mentioned: Age of infant/young child, Frequency, Amount, Texture (thickness/consistency), Variety (different foods), Responsive feeding, and Hygiene.		
	Divide the Participants into groups of about 8-10 persons in each group.		
	Distribute pieces of paper with the key CF practices. Ask both groups to fill in their flipchar content: taping or sticking their pieces of paper in the appropriate box on flipchart.		
	Discuss and summarize by using the answer sheet.		
	Discuss Responsive Feeding: Ask participants to write on a piece of paper what recommendation they give to caregivers on complementary feeding.		
	Using a flip chart, group the recommendations into 'What to Give' and 'How to Give'. Explain the importance of providing more support to caregivers on how to feed their infants.		

Table 9: Key Complementary Feeding Recommendations

Age	Recommendations			
	Frequency ((per day)	Amount of food an average child will usually eat at each meal (in addition to breast milk)	Texture(thickness/ consistency)	Variety

Age	Recommendations			
At 6 months start complementary foods	2 to 3 meals plus frequent breastfeeds	2 to 3 tablespoons Start with 'tastes' and gradually increase amount	Thick porridge/pap	Breast milk + Animal foods
From 6 up to 9 months	2 to 3 meals plus frequent breastfeeds 1 to 2 snacks may be offered	2 to 3 tablespoonfuls per feed Increase gradually to half (½) 250 ml cup/bowl	Thick porridge/pap Mashed/ pureed family foods	(local examples) + Legumes (local examples) + Staples (porridge, other local examples) + Fruits/ Vegetables (local examples) +
From 9 up to 12 months	3 to 4 meals plus breastfeeds 1 to 2 snacks may be offered	Half (½) 250 ml cup/bowi	Finely chopped family foods Finger foods Sliced foods	
From 12 up to 24 months	3 to 4 meals plus breastfeeds 1 to 2 snacks may be offered	Three-quarters (%) to 1 250 ml cup/bowl	Sliced foods Family foods	Micronutrient Powder (country specific)

Age	Recommendations			
Note: If child from 6 up to 24 months is not breastfed	Add 1 to 2 extra meals 1 to 2 snacks may be offered	Same as above according to age group	Same as above according to age group	Same as above, plus 1 to 2 cups of milk per day + 2 to 3 cups of extra fluid especially in hot climates

Section 4: The Four-Star Diet

Advance preparation: ask participants to bring locally available food items from their home

- for the session. Alternatively, purchase a few items from each of the 4-star group for this exercise. ☐ Instruct participants to sort the different local available foods from her/his home into the 4 food groupings (by placing the food cards or ingredients onto the correct food grouping picture). Discuss and summarize. Divide Participants into 4 groups. Ask each group to select and use the available food cards or ingredients to "prepare a meal" for one of the following age-groups: □ From 6 up to 9 months □ From 9 up to 12 months □ From 12 up to 24 months □ Pregnant woman (22weeks) ☐ Ask each group to show and explain the "prepared food" to the entire group, discussing age-appropriate characteristics of complementary feeding: frequency, amount, texture (thickness/ consistency), variety, responsive feeding, and hygiene (bullets 1-3). With each food selected
 - from a different food grouping, give the working group a star (drawn on a piece of paper). The working group tries to build a 4-star meal/bowl or plate for each age group.

Section 5: Seasonal food calendar

Ask participants to fill in the seasonal food calendar and discuss

Seasonal Food Calendar: Inexpensive and available foods (market and/or home)

January	February	March
Home	Home	Home
Market	Market	Market
April	May	June
Home	Home	Home
Market	Market	Market
July	August	September
Home	Home	Home
Market	Market	Market
October	November	December
Home	Home	Home
Market	Market	Market

Unit 2. Health and nutrition messages for pregnant woman, after delivery, postnatal and child health

See MCHRB page 1, 15-20, 29-42, 51, 58 and User Guide 21, 32-33

Open the relevant "health message" pages for each topic and explain (User guide page 21 and 32-33).

0	Practice: give 1-2 examples of mothers at ANC1-8, after delivery, PNC, CWC. Practice giving timely and appropriate health and nutrition messages for the mothers and recording the date of counseling on the table.
Un	it 3. Nurturing Care in Early Childhood Development (ECD)
	Briefly explain the concept of "Nurturing care" in Early Childhood Development (ECD)
	> Nurturing care refers to the creation of a stable environment by parents and other caregivers
	that ensure children's good health and nutrition.
	> Nurturing care also involves putting in place measures that protects the child from threat and
	gives young children opportunities for early learning through interactions that are
	emotionally supportive and responsive.
	,·,·,·
	List the five critical domains in Nurturing care
	Adequate Nutrition
	Good Health
	Responsive caregiving
	Early Learning
	Security and Safety
	Group Discussion: Ask participants to explain how each of the components contribute to the
_	growth and development of the child.
	grown and development of the office.
п	Summarize the group discussion with the following key points if not already stated:
_	> A mother's physical, nutritional and mental wellbeing affects the ultimate health and
	wellbeing of her child.
	 Ensuring good health of the child means monitoring the child's growth, seeking care and
	appropriate treatment for illnesses, protection from household dangers, etc.
	appropriate treatment for innesses, protection from nousehold dangers, etc.

- > Promote age appropriate feeding and food safety to ensure adequate nutrition.
- Responsive care giving include observing and affectionately responding to the child's movement, sounds, gestures and verbal requests.
- Ensuring safety and security is critical as young children cannot protect themselves and are vulnerable to unanticipated danger, physical pain, hazardous chemicals, extreme poverty and abuse or harsh punishment.
- Over 80% of the child's brain is formed by the age of three. It is therefore important to initiate play and stimulation activities in the early stages of growth and development. Example: allowing child to play with safe household items such as cups, spoons etc. and stimulate.

		Assessment of Developmental Milestones and Recommendations for Child Care
		CHRB page 58 "stages of growth" section.
	Ex	plain that health worker is the professional who is closest to child and the family in early
	sta	ges of life, and that their role in early childhood development is critical.
0	Op	en MCHRB page 59 and explain the following;
	>	Developmental milestones: provides information on specific developmental stages in
		children that both caregiver and health worker can use to monitor the child's growth.
		· · ·
	>	Recommendations for childcare: provides care and support needed for child in each stage.
	Ask	participants how they can integrate ECD into their routine health service delivery.
0	Ехр	lain that
	>	when a child comes to PNC and CWC, show the page to the mother and introduce age
		specific developmental milestones, check the boxes for milestones the child has reached or
		page 59 of MCHRB and explain recommendations for childcare.
	A	If a child reaches all the age specific milestones, tell the mother that the child is developing

NOTE: Developmental milestones are only guides; some children will reach the milestones earlier/a little later than others.

recommendations to mother of child of different age groups.

➤ If a child does not reach the age-specific milestones, record it as remarks so that a health worker can check it at the next visit. If a child can't reach any age-specific milestone after several months, recommend the mother to have a consultation with a doctor.

☐ Conduct a role-play with 2-3 groups to introduce milestones, check the milestones and explain

well.

MODULE 6: Nutrition Counseling

Duration	3 hours 45 mins

1. Module description

The module outlines the counseling skills and the 3-steps counseling process health workers use during the interactions with clients, discusses Appropriate practice of the counseling skills must be conducted with respectful care which we will look at in a different module. This is the key to motivate pregnant women and caregivers of children to adopt dietary, feeding and care recommendations.

2. Objective

By the end of this module, participants should be able to:

- 6 Know the 6 Listening and Learning and the 6 Confidence Building and Support Giving Skills.
- Use these counseling skills.
- Understand the 3-Steps Counseling Process.
- Conduct counseling using the 3-steps process.
- Know how to investigate causes of malnutrition.

3. Teaching and learning materials

Unit	Teaching and learning materials
Unit 1. Counselling skills: Listening and Learning	User guide page 68-71
Skills	IYCF Counseling Package
	Sessions 5 (Listening and Learning Skills) ¹
Unit 2. Counseling Skills: Confidence Building and	IYCF Counseling Package Sessions 10
Support Giving Skills	(Confidence Building and Support Giving
	Skills)
Unit 3. The 3-Step Counseling Process	Community IYCF Counseling Package
	Session 9: How to Counsel Part II
Unit 4. Practice of counseling skills and the three	
steps counseling process	
Unit 5. Investigating Causes of Malnutrition	Participants Manual Module 6 Unit 5

Explain how to fill the nutrition counseling table for pregnant woman on MCHRB Pg. 9 using
dietary assessment table in user guide Pg. 25-26 and nutrition counseling table for child on
MCHDD Dr. 40/50 using distant assessment table in user guide Dr. 45 47

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Using one case study each on Pg.26 and Pg.47 of the User Guide, demonstrate how to fill the

4. Teaching methods

Unit 1. Counseling Skills - The Listening and Learning Skills

See User guide page 68-71

Explain what counselling is:

It is an interaction in which a counsellor offers another person the time, attention, information, and respect that is necessary to help him/her use the information to make a choice or solve a problem. Counseling is:

- > not just a conversation; Though you need to sustain the interest
- not to educate the woman on everything she needs to know: Though you give little relevant information.
- > not a fault-finding session: Yet do not let a misconception remain after the session.
- > not advising: You can only suggest.

Confidence and Support Giving Skills.
Explain that the Listening and Learning Skills are used to listen and learn what the woman/caregiver is doing and observe in order to get as much of her practices as possible.
Mention the 6 Listening and Learning Skills and demonstrate them with examples (See Annex 2).

☐ Explain that there are two sets of counseling skills The Listening and Learning Skills and the

Listening and learning skills:

SKILL 1: Helpful Non-verbal communication

SKILL 2: Ask open questions

SKILL 3: Use responses and gestures that show interest

SKILL 4: Reflect back what the mother said

SKILL 5: Empathize - show that you understand how she/he feels

SKILL 6: Avoid using judging words

Unit 2. Counseling Skills - The Confidence Building and Support Giving Skills

]	Explain that the Confidence Building and Support Giving Skills are used to build a mother's
	confidence and support her to implement the appropriate behaviors, relevant to her current
	situation.

Mention	the	6	Confidence	Building	and	Support	Giving	Skills	and	demonstrate	them	with
examples	š.											

 Explain that a health workers support is always complementary to what the woman/caregiver can do.

Confidence building and support giving skills:

SKILL 1: Accept what a mother/pregnant woman thinks and feels

SKILL 2: Recognize what pregnant woman/mother does right and praise

SKILL 3: Give practical help

SKILL 4: Give a little, relevant information

SKILL 5: Use simple language

SKILL 6: Make one or two suggestions, not commands

Unit 3. Explain the 3- Step Counseling Process (3-As)

See User Guide 22-23, 43-46, 68-71

- ☐ Explain 3As Counseling Steps and indicate that this is the approach adapted by the Ghana Health Service to conduct nutrition counseling.
 - Assessment evaluation of an individual, group or the entire population's nutritional practices and status. At the individual level, assessment means ask about age appropriate feeding and condition of mother/father/caregiver and child: ask, listen and observe. Note causes related to recurrent illness or other social and environmental factors.
 - Analysis the process of scrutinizing information obtained during the assessment to understand why an individual or community's nutritional status is compromised. On the personal/individual level, analysis means looking or identifying the gaps in practice with respect to expected or recommendations and prioritizing the difficulties.
 - Action putting in place a plan or intervention to address the identified gap or problem associated with the compromised nutritional status. At the individual level, action means discuss, suggest small amount of relevant information, agree on feasible doable options that mother/father/caregiver can try.

It would be helpful to explain the table below to bridge the terminology can

Nutrition counseling	Nursing/midwifery process
Assessment	History taking, examinations and observations identification of nursing problems
Analysis	Nursing/midwifery diagnosis
Action	Nursing/midwifery interventions
Follow up and remarks	Nursing/midwifery evaluation

Unit 4	Practice	Counselin	e Skille

	play.
	Discuss the counseling demonstration with participants.
	Put participants into groups of 3 persons – a caregiver/pregnant woman, a health worker and an observer. Let each group practice, changing roles till all have had the opportunity to practice one scenario.
0	Discuss and summarize, identifying the possible causes of malnutrition in each specific scenario.
Un	it 5. Investigating Causes of Malnutrition
	Show the UNICEF Conceptual Framework for Causes of Malnutrition in Participant's Manual Module 6 Unit 5 and explain the framework.

☐ Call out a set of facilitators (already prepared with their scenario) to conduct a counseling role

- ☐ Using the UNICEF Conceptual Framework for Malnutrition, explain the different causes of undernutrition that should be considered during nutrition counseling.
- ☐ The UNICEF framework describes theat causes of malnutrition; indicating that they occur on different levels and, classified as immediate, underlying, and basic. Malnutrition comprises both Undernutrition and Overweigh/Obesity.



Figure 7: The Conceptual Framework for Malnutrition

(UNICEF 2013)

- Immediate causes (individual level): The interplay between inadequate dietary intake and illness tends to create a vicious circle. You need to determine:
 - Whether the child is currently ill or has been recently ill.
 - o How the baby has been feeding and observe a breastfeed
- Underlying causes (household or family level): inadequate access to food, unhealthy household environment and insufficient health services and inadequate care and feeding for children and women lead to inadequate dietary intake and infectious disease.
- Basic causes (societal level): political, economic, cultural and religious systems and institutional structures.
- ☐ Briefly explain forms of malnutrition in both children and pregnant women
 - Children<5 years</p>
 - Underweight (below -2 z-score weight-for-age!)
 - Stunting (below -2 z-score length/height-for-age)
 - · Wasting (below -2 z-score weight-for-length/height or MUAC less than 11.5cm)
 - · Overweight (above +2 z-score in weight-for-length/height)
 - · Has a trend toward one of these problems

> Pregnant woman

- Underweight (BMI <18.5)
- Overweight/Obese (BMI ≥ 25~29.9)
- Anaemia (Hb<11g/dL)
- · Slow or stagnant weight gain/rapid weight gain
- □ Review one of the case scenarios for the counselling practice: helping participants to identify the various causes of undernutrition/overweight/obesity in them.
- Prompt participants to list the various causes and classify them according to basic, underlying or immediate causes.
 - > Examples of possible immediate causes of undernutrition:
 - o not breastfeeding/not feeding frequently enough/early supplementation
 - o difficulties with breastfeeding technique
 - replacement of breast milk with poor quality supplements or inadequate replacement feeding
 - o not being fed according to the age-appropriate recommendations for CF
 - o diarrhoea
 - > Examples of possible immediate causes of Overweight:
 - physically inactive hours spent each day? For example: how much time does a baby spend confined in a crib or baby carrier?; watching television or play computer or video sames?
 - o formula or other milk intakes per day?
 - o intakes in a typical day? Look out for
 - sugary drinks or foods like cakes, sweets or other high energy foods like chocolates, jam, margarine, butter? How often?
 - no of meals and snacks
 - = eating in-between meals?
 - > Possible underlying household and basic socio-cultural and environmental factors:
 - o child's living condition: with own parents, foster care, street etc.
 - o number of persons in household; especially children under 5 years.
 - health status of parents.
 - care practices from those he/she lives with: look out for abuse of child, lack of meals, poor hygiene practice, care during sickness etc.
 - o amount of food at home, portion size for the child, work status of caregivers.

MODULE 7: Field Practice

man of	41 00 1	
Duration	4 hours 30 mins	

1. Module description

This module would enable participants practice how to use the MCHRB correctly and effectively. This session should be conducted ina health facility with pregnant women and caregivers of children 0-59months.

2. Objectives

To practice essential skills on how to use the MCHRB.

3 Teaching and learning materials

3. Teaching and learning materials	
Unit	Teaching and learning materials
Unit 1. Preparation for field practice	MCHRB, list of pairs
Unit 2. Field practice 1	Length board/height board, weighing scale, MCHRB,
	pencils/erasers, pen, BMI wheel, participant guide, user
	guide, star stamp and stamp pad, soap
Unit 3. Field Practice 2	Algorithms, MCHRB

4. Teaching Method

Unit 1. Lecture: Preparation for field practice

- Explain the rationale of the field practice to all participants:
- > Why the need to conduct this field practice?

To practice skills in:

- Introducing the book to clients (pregnant women and caregivers of children) in the health facilities.
- ♦ Filling the book
- ♦ Weighing children
- Measuring length or height
- Plotting measurements on the growth charts
- 3A's and counselling skills, use of Algorithms to conduct assessment, analysis and take action.
- Explain what they are going to do in field practice.
 - > Participants will be in pairs during the field practice.

ANC

- > Take turns in the pairs to introduce the MCH Record Book to pregnant women and mothers.
- > Fill out the family identification and pregnancy records.
- Weigh pregnant women, especially those who are less than 12 weeks and measure their heights.
- Calculate Body Mass Index (BMI) and determine desired range of weight gain at Estimated Date of Delivery (EDD).
- Conduct nutrition counseling and fill the nutrition counseling table.
- > Give star on the CoC card.

Delivery

- If there are women who have delivered on the ward, assign few groups to obtain information from this group.
- > Take turns in the pairs to introduce the MCH Record Book to newly delivered mothers
- > Fill out the family identification and delivery records
- Give a star on the CoC card.

Postnatal Clinic

- > Take turns to introduce book to caregiver.
- > Fill out the delivery and PNC portions of the book using the information available.
- Give star on the CoC card.

Child welfare clinic

- > Take turns to introduce book to caregivers.
- > Fill out child identification page.
- ➤ Weigh the child.
- Measure length/height of child-Make efforts to get at least 2 children for length measurement and 2 children for height measurement.
- > Record today's and previous measurement on growth parameters page.
- > Fill out the immunization page with information from the book.
- Plot today's measurement on growth charts.
- > Conduct nutrition counselling and fill the nutrition counselling table.
- Give star on the CoC card.

Note: Explain to participants they will be using child height/length and weight data they collect to plot and interpret growth later.

Describe their preparations before they go to the field

Prior information and the necessary permissions should be sought before the team travels out to the field practice site.

Items to prepare for field practice

- > Copies of MCHRB or photocopies of appropriate pages
- ➤ Stationery
- > Weighing scales with batteries
- ➤ Length/height boards
- ➤ BMI Charts
- > Gifts for respondents (if required)
- > Transport to the field site (if required)

	Announce	pairs to	partici	pants
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- ☐ Prepare team leads on how to manage participants on the field
- Explain to the participants that during the field work they should:
 - > Bring their MCHRB, BMI wheel, pen and pencils.
 - Follow protocol.
 - > Request for space to do their set-up of anthropometric equipment.
 - Discuss with the team leads to support with getting clients for interactions and obtain CWC cards or ANC or delivery records.

Unit 2. Field practice 1

- Explain the objective of the field work
 - The objective of the field work is to introduce MCHRB to pregnant women and caregivers, fill the MCHRB. conduct measurement of weight and height/length and plot.
- Group participants and divide them to ANC, Delivery, PNC, CWC: depending on the number of clients available and assign pregnant women or caregivers to them. Assign to one facilitator about 4-5 groups.
- Review their key assignments for the activity; making sure they understand what is expected of them.
- Swap each group after 40 mins so that all pairs have opportunity to reach pregnant women and caregivers of children under 5 years.
- Close the session after about 3 hours and return to the classroom.
- Conduct plenary in classroom to review the field practice.

Unit 3. Field Practice 2

- Explain the objective of this field work
 - > The objective of the field work 2 is to practice how to conduct measurements and counsel

a client using the listening and learning, confidence building and support giving skills, the 3-step counseling process, the algorithms and the nutrition counseling tables.

☐ At the facility:

- Assign each facilitator to about 4-5 groups of pairs.
- Ensure that facilitators supervise activities and swap participants to other service delivery spaces after about 45mins.
- ☐ Conduct plenary in classroom to review the field practice

MODULE 8: Strengthening Nutrition Counseling Services and Respectful Care

Duration	5 hours 20 mins

Module description

The module covers the concept of Nutrition Counseling Services and Respectful Care, and how these should be provided.

Objective

By the end of this module, participants should be able to:

- Understand the concept of Nutrition Counseling Services
- Understand the concept of Respectful Care
- Develop philosophy of care
- Provide Respectful Care
- Understand the Algorithms and Fill the nutrition counselling tables in MCHRB correctly.

1. Teaching and learning materials

1. Teaching and rearing materials	
Unit	Teaching and learning materials
Unit 1. Concept of Nutrition Counseling Service	Participant's Manual module 8 unit 1
Unit 2. Concept of Respectful Care	Participant's Manual, module 8 unit 2
Unit 3. Explain Algorithms on Nutrition	Participant's Manual module 8 unit 3
Counseling and How to fill the Counseling Tables	User Guide page 22-24, 43-46
Unit 4. Group work/ Role play: How to practice	Participant's Manual module 8 unit 4
Respectful Care during routine service	
Unit 5. Group discussion	

4. Teaching methods

Unit 1. Concept of Nutrition Counseling Services

- ☐ Briefly explain concept of nutrition counseling services, rationale, target and approach.
 - Nutrition Counseling Services is the provision of comprehensive nutrition care through effective communication and counselling, targeting caregivers, pregnant and lactating women.
 - The Goal is to equip and empower caregivers and the entire population to adopt optimal nutrition practices and other nutrition-related behaviours to ensure the optimal health, survival and wellbeing of pregnant women and children.

> Nutrition counseling will focus on

- ♦ Pregnant and Lactating Women
 - · Promoting a healthy diet by increasing the diversity and amount of foods consumed.
 - · Promoting adequate weight gain through sufficient protein and energy intake.
 - Promoting consistent and continued use of micronutrient supplements, food supplements or fortified foods where needed.

♦ Children under five years

- · Promoting appropriate, adequate and safe feeding
- Promoting optimal growth and development of children and prevent malnutrition through Growth and feeding assessment and identification of risk/provision of guidance on feeding and care.
- Nutrition counseling activities can be conducted at both the Individual (pregnant woman/caregiver) and Community level.

Discuss the approach and organization of the NCS

- The nutrition counseling services should be integrated into routine antenatal, post-natal and child welfare clinic services and where required, as a stand-alone service. Special emphasis will be put on those with conditions requiring special care such as anaemic and malnourished women and children.
- Individual counseling sessions should be conducted at the service delivery points or as a standalone clinic (referrals).
- Community engagements for nutrition counseling services can also be conducted in the communities.
- All cadre of staff can conduct NCS e.g. Community Health Nurses, Midwives, Enrolled Nurses, Nutrition Officers, Public Health Nurses, Physicians, Dietitians and Health Promotion Officers.

Figure 8: Nutrition Counseling Approach



- Discuss the revised schedule for NCS with participants
 - > Pregnant women

Once in each trimester: Additional follow-up sessions if required

> Caregivers of children under 5 years

All caregivers at every visit, On Schedule for 6 weeks, 3 months as per original plan: Additional follow-up sessions if required.

Unit 2. Lecture: Concept of Respectful care

- Briefly explain the concept of "Patient Rights" and "Respectful Care".
 - Definition of Respectful Care:
 - > Introduce WHO QoC standard, especially standard 4 and 5.
 - Refer to Ghana National Healthcare Quality Strategy, the Patient's Charter and Code of Ethics
 - > Dealing with personal stress

☐ What is Respectful Care?

- Respectful Care refers to care organized for and provided to all clients in a manner that maintains their dignity, privacy and confidentiality, ensures freedom from harm and mistreatment, and enables informed choice and continuous support. (adapted from WHO recommendation 2018)
- Respectful maternity care (RMC) is a universal human right that is due to every childbearing woman in every health system. Women's experiences with maternity caregivers can empower and comfort them, or inflict lasting damage and emotional trauma. (White Ribbon Alliance 2017)

- WHO 'Standard for improving quality of maternal and newborn care in health facility' and 'Standards for improving the quality of care for children and young adolescents in health facility'; components related to Respectful Care include 'Effective communication', 'Respect and preservation of dignity' and 'Emotional support'.
- > Examples of policies and strategies
 - o Ghana National Healthcare Quality Strategy 2016
 - Ghana National Implementation Guide for improving Quality of Maternal and Newborn Care in Health Facilities

Overview of the GHS Code of Ethics

All service personnel shall

- o be competent, dedicated, honest, client-focused and operate within the laws of the land,
- respect the right of patients/clients, colleagues and other persons and shall safeguard patient/clients' confidence.
- work together as a team to best serve patients'/clients' interest, recognizing and respecting the contributions of others within the team.
- o respect confidential information obtained in the course of their duties.
- o provide information regarding patients' condition and management,
- No discrimination against any patient/client's illness, political affiliation, occupation, disability culture, ethnicity, language, race, age, gender, religion etc.
- Review with participants a service provider's responsibility according to Patient's Rights and how they can integrate this into their routine work.

PATIENT'S RIGHTS

from the GHANA HEALTH SERVICE PATIENT'S CHARTER February 2002

- A) The patient has the right to quality basic health care irrespective of his/her geographical location.
- B) The patient is entitled to full information on his/her condition and management and the possible risks involved except in emergency situations when the patient is unable to make a decision and the need for treatment is urgent.
- C) The patient is entitled to know of alternative treatment(s) and other health care providers within the Service if these may contribute to improved outcomes.
- D) The patient has the right to know the identity of all his/her caregivers and other persons who may handle him/her including students, trainees and ancillary workers.

- E) The patient has the right to consent or decline to participate in a proposed research study involving him or her after a full explanation has been given. The patient may withdraw at any stage of the research project.
- F) A patient who declines to participate in or withdraws from a research project is entitled to the most effective care available.
- G) The patient has the right to privacy during consultation, examination and treatment. In cases where it is necessary to use the patient or his/her case notes for teaching and conferences, the consent of the patient must be sought.
- H) The patient is entitled to confidentiality of information obtained about him or her and such information shall not be disclosed to a third party without his/her consent or the person entitled to act on his/her behalf except where such information is required by law or is in the public interest.
- The patient is entitled to all relevant information regarding policies and regulation of the health facilities that he/she attends.
- Procedures for complaints, disputes and conflict resolution shall be explained to patients or their accredited representatives.
- K) Hospital charges, mode of payments and all forms of anticipated expenditure shall be explained to the patient prior to treatment.
- L) Exemption facilities, if any, shall be made known to the patient.
- M) The patient is entitled to personal safety and reasonable security of property within the confines of the Institution.
- N) The patient has the right to a second medical opinion if he/she so desires.

Explain the concept of stress and discuss its management²

Stress can be defined as any emotional, physical, social, or economic factor that requires a response or a change from an individual. However, prolonged stress is destructive and debilitating. Stress is a natural phenomenon. Work-related stress emerges when the knowledge and abilities to cope with an individual worker or with a group are not matched with the expectations of the organizational culture of that enterprise.

> Just as there are many different causes of stress, there are various ways of managing it.

² ILO Trainer's guide SOLVE: Integrating Health Promotion into Workplace OSH Policies

- At management-collective level: control, social support, matching the job and the worker, training and education, transparency and fairness, physical working environment.
- At individual level: get to know your own stress reactions. Try to find out what it is in your situation which causes the stress, a lot of what stresses you may be trivial, something you will soon have forgotten, nothing to worry about. Do not trouble yourself with worries about what might happen in the future ("what ifn.."). Try to accept the inevitable. Seek to compensate in other ways. Do fun things with your family if you are having a hard time at work. Or try to enjoy work if family life is hard. Find social support. Get a hold of reality. Be realistic when you set yourself goals. Try to get control of your own life. If the above points do not help—do not hesitate to see a doctor.

Un	Unit 3. Explain Algorithms on Nutrition Counseling and How to fill the Counseling Tables				
	Explain the algorithm for Nutrition Counseling at ANC (Table 1)				
	Explain the algorithm for Nutrition Counseling at CWC (Table 2)				

ALGORITHM FOR NUTRITION COUNSELLING SERVICES AT ANC

Ž	ASSESSMENI	ANAL YSIS/SIGNS	ACION		FOLLOW UP
¥	At first visit				
に下	FOR REGISTRANTS IN FIRST TRIMESTER	FOR REGISTRANTS IN FIRST TRIMESTER			
		➤ Normal: BMI 18.5~24.9	>	Conduct scheduled	
A		(Only for registrants in first	_	nutrition counseling	
	Index (Refer to MCHRB page 6)	trimester)	.⊑ +ō	including estimated desired weight	
E	FOR ALL	FOR ALL			
. A	Check record for Hb level and/or	W Hb> 11.0 a/dl	>	Conduct scheduled	
	Pallor, ,Sickling and blood film	No pallor	_	nutrition counseling with	
	for malarial parasites	▶ Sickling negative	Ф	encouragement to comply	
	(Refer to MCH RB page 6 and 7)	▶ BF(-)No vomiting, diarrhea	3	with IFA regimen	
		or constipation			
A	Check record for complaints of	▶ No Identified gaps in dietary			
	nausea, vomiting, constipation,	practice			
	diarrhea, loss of appetite				
	(Refer to MCH RB page 7)	 Identified gaps in dietary 			
		practice	٠ د	Conduct nutrition	
A	Conduct a dietary assessment		σ.	counseling based on	
	(see MCHRB page 9, Nutrition		.0	identified gaps	
	Counseling for Pregnant	For Registrants in first			
	women)	trimester			
		▶ Underweight: BMI <18.5	<u>۷</u>	Conduct nutrition	
		ъ	ō	counseling based on	
		▶ Overweight: BMI 25~29.9	_	nutritional status	
	•	E TOT			
		➤ Moderate anaemia	⊢	Treat anaemia; iron 60mg	
		HB (7-10.9 g/dl)	م	bd, Folic acid (1 tablet	
			Ö	daily)	
		Moderate pallor	۷ >	Agree on a next	/ If Hb improved, continue
			ō	counseling session in 2	With treatment until HD is

		Wes	weeks	11g/dl or more I the is 11g/dl or more move onto IFA maintenance dose I no change in the after two weeks, refer to the next
	Mild vomiting, diarrhea or constipation	*> > >	Prescribe ORS Conduct nutrition counseling Agree on next counseling	8/8
	For Registrants in first trimester b Obese BMI≧30	\$ 8 8 E	Conduct nutrition counseling based on nutritional status	
	For All Severe anaemia HB< 7.0 9(d) Sickling positive BF(+)	/ Treat bd. F daily) / Refer	Treat anaemia; iron 60mg bd, Folic acid (1 tablet daily) Refer to the next level	 Link client to community health nurse for regular home visits and another follow-up.
	Severe vomiting or constipation or diarrhea loss of appetite	/ / Page	Prescribe ORS Accompany the client to the next level	
For subsequent visits	Hb≥ 11.0 g/dl and or No pallor Sickling negative BF(-)	S E	Conduct scheduled nutrition counseling	
	> Stool RE (+) > No vomiting, diarrhoea or constipation	Col	Deworming Conduct scheduled nutrition counseling	

	 Slow/Rapid Weight gain 	>	Conduct scheduled	
	 Weight gain is in line with 		nutrition counseling as	
	desired weight gain		appropriate	
	No identified dans in dietary			
	riacinos de la constante de la			
	Identified gaps in dietary	>	Conduct nutrition	 Review weight gain and
	practices		counseling based on gaps	discuss
•	➤ Moderate anaemia HB	>	Treat anaemia: iron 60mg	If Hb improved, continue
	(7-10.9 g/dl)		bd, Folic acid (1 tablet	with treatment until Hb is
			daily)	11g/dl or more
		>	Agree on a next	✓ If Hb is 11g/dl or more move
			counseling session in 2	onto IFA maintenance dose
			weeks	If no change in Hb after two
				weeks, refer to the next
				level
	 Mild vomiting, constipation, 	<u>,</u>	Prescribe ORS	
	diarrhea	>	Conduct nutrition	
			counseling	
		>	Agree on next counseling	
			session in 2 weeks	
	▶ Severe anaemia HB<7.0g/dl	^	Treat anaemia; iron 60mg	 Link client to community
	 Sickling positive 		bd, Folic acid (1 tablet	health nurse for regular
	▶ BF(+)		daily)	home visits and another
	Severe vomiting or	>	Refer to the next level	follow-up.
	constipation or diarrhea			
		<u>></u>	Prescribe ORS	
		<u>></u>	Accompany the client to	
			the next level	
		>	Refer to the next	
		ı		

ALGORITHM FOR NUTRITION COUNSELLING SERVICES AT CWC

ASSESSMENT		ANALYSIS/SIGNS		ACTION		FOLLOW UP
For all children	A	Normal weight for age (z	Son	✓ Conduct nutrition		
▶ Measure weight and		score SD to +2 SD and above	coni	counseling as		
determine Weight-for-Age		-2)	appl	appropriate		
▶ Ask mother/caregiver is	A	Normal length/height for age				
presently ill or has been ill		(z score SD to +2 SD and				
within the past two weeks		above -2)				
▶ Conduct a dietary	A	Growth curve going up				
assessment	A	Child is not ill				
	A	No dietary gaps identified /				
For eligible children		dietary gaps Identified				
✓ Measure length/height and	A	Child has normal W/A and	√ Cou	Counsel and refer		
determine		L/H for age and child is ill	먑	child for treatment		
Length/height-for-Age!	A	Identified dietary gaps	Sou ✓	Counsel on feeding the		
			sick	sick child		
			✓ Agre	Agree on next visit		
FOR CHILDREN 6-59 MONTHS			9	6-59-MONTHS-CHILD		
➤ Measure weight and	A	Moderate underweight (W/A	S S	Conduct nutrition	`	If child has gained weight,
determine Weight-for-Age		-z score SD Below -2 SD to -3	DO	counseling session		congratulate mother. Conduct a
▶ Ask mother/caregiver is		SD)	base	based on gaps identified		quick assessment of mother's
presently ill or has been ill	A	Moderate stunting (L/A -z	√ Agre	Agree on follow-up		practices (feeding and care
within the past two weeks		score SD Below -2 SD to -3	cont	contact in 14 days		practices)
➤ Conduct a dietary		SD)	Sch	Schedule targeted home	>	Ask mother to come back for the
assessment	A	Static weight	visit			next CWC session

Child is not ill Identified dietary gaps Static weight for 3 continuous visits Weight loss for two continuous visits Severe underweight (W/A - 2 Severe underweight (W/A - 2 MUAC greater than or equal to 11.5cm MUAC less than 11.5cm	<u>A</u>	Weight loss and		If child has not gained weight,
> Identified dietary gaps > Static weight for 3 continuous visits or Weight loss for two continuous visits > Severe underweight (W/A - 2 score SD Below-3SD) and > MUAC greater than or equal to 11.5cm visits	sligible children	Child is not ill		counsel mother.
Static weight for 3 continuous Visits or Weight loss for two continuous visits Severe underweight (W/A-z < score SD Below-3SD) and MUAC greater than or equal to 11.5cm MUAC less than 11.5cm MUAC less than 11.5cm Or	Aeasure length/height and	Identified dietary gaps		 Agree on a follow-on home visit
Visits Visits Or Visits letermine				
or Weight loss for two continuous visits Severe underweight (W/A-z continuous Visits) and MUAC greater than or equal to 11.5cm MUAC less than 11.5cm In this continuous visits continuous v		Static weight for 3 continuous	Refer to the next level	 Conduct a home visit when child
Weight loss for two continuous visits Severe underweight (W/A-z v soore SD Below-3SD) and MUAC greater than or equal to 11.5cm MUAC less than 11.5cm Published Initian celebra 2.00		visits		retums from referral level
Weight loss for two continuous visits Severe underweight (W/A-z < score SD Below-3SD) and MUAC greater than or equal to 11.5cm MUAC less than 11.5cm or Indexed believe at 11.5cm	5			If child has gained weight,
continuous visits Severe underweight (W/A - z score SD Below-3SD) and MUAC greater than or equal to 11.5cm MUAC less than 11.5cm Diseased pulling and one of the continuous points of the conti	A			congratulate mother.
> Severe underweight (W/A -z < score SD Below-3SD) and > MUAC greater than or equal to 11.5cm > MUAC less than 11.5cm or State of the property		continuous visits		 Conduct a quick assessment of
Severe underweight (W/A-z soore SD Below-3SD) and MUAC greater than or equal to 11.5cm MUAC less than 11.5cm or				mother's practices (feeding and
Severe underweight (W/A-z soore SD Below-3SD) and WUAC greater than or equal to 11.5cm MUAC less than 11.5cm or				care practices) and counsel
Severe underweight (W/A-z < score SD Below-3SD) and MUAC greater than or equal to 11.5cm MUAC less than 11.5cm or				appropriately
Severe underweight (W/A-z < score SD Below-3SD) and MUAC greater than or equal < to 11.5cm MUAC less than 11.5cm < or or beloaned with or expense or the score o				 Agree on a follow-up visit at the
Severe underweight (W/A-z / soore SD Below-3SD) and MUAC greater than or equal to 11.5cm MUAC less than 11.5cm or				facility in 14 days
and MUAC greater than or equal to 11.5cm MUAC less than 11.5cm or		Severe underweight (W/A -z	✓ Conduct nutrition	If child has gained weight at
and MUAC greater than or equal to 11.5cm MUAC less than 11.5cm or	re underweight (W/A -z	score SD Below-3SD)	counseling based on	follow-up visit, counsel the mother
MUAC greater than or equal to 11.5cm MUAC less than 11.5cm or		_	gaps identified	✓ Follow-up in 14 days. If there is
to 11.5cm / MUAC less than 11.5cm or Patrace and American	A	MUAC greater than or equal	✓ Follow-up every two	progress, repeat 14-day visits for 2
MUAC less than 11.5cm or Dilatanal chiling codemo a co	sure MUAC	to 11.5cm	weeks	times.
MUAC less than 11.5cm	sk for oederna of both feet		✓ Conduct home visit	✓ Discharge to join normal CWC if
MUAC less than 11.5cm				w/a >-2SD
MUAC less than 11.5cm				
Bilatoral nitting godoma + or	A	MUAC less than 11.5cm	✓ Refer to CMAM OPC if	✓ If the child does not gain weight,
Rilateral nitting godema + or	<u>o</u>		available	re-assess MUAC and oedema. If
Dilateral pittilig cedellia + Of	<u>A</u>	Bilateral pitting oedema + or	✓ Refer to higher level if	condition is same, counsel and
++ CMAM OPC is not		‡	CMAM OPC is not	refer to the next level

	and	available	Refer if child is getting worse
	➤ Child has no other illness		
	➤ Bilateral pitting oedema +++	 Refer to hospital (IPC) 	
	➤ MUAC less than 11.5 and any		
	grade of oedema		
	➤ MUAC less than 11.5cm		
	ъ		
	Bilateral pitting oedema + or ++		
	and		
	Medical complication		
For children less than 6		Less than 6-month-baby	
months with underweight (W/A	➤ No visible severe wasting	 Conduct breastfeeding 	If child has gained weight at
z score SD Below -2 SD to	No oedemai	counseling based on	follow-up visit, counsel the mother
below -3 SD)	▶ Identify gaps in breastfeeding	gaps identified	on breastfeeding
	practice	 Correct positioning and 	If child has no prospects of
➤ Check for visible severe		attachment	breastfeeding, counsel on other
wasting		✓ Follow-up every two	milk intake
➤ Check for bilateral pitting		weeks	Follow-up in 14 days. If there is
oedema		 Conduct home visit 	progress, repeat 14-day visits for 2
➤ Assess breastfeeding			times.
(frequency, demand feeding,			 Discharge to join normal CWC if
positioning and attachment,			W/A >-2SD
intake of other fluids/foods			If the child does not gain weight,
etc)			counsel and refer to the next
			level
			 Refer if child is getting worse

	A	 Visible wasting or Bilateral 	>	Correct positioning and	>	✓ Correct positioning and ✓ If child has gained weight at
		pitting oedema present		attachment		follow-up visit, counsel the mother
_	A	Identified breastfeeding	>	Review and teach		on breastfeeding
		difficulties		mother how to express / Follow-up in 14 days	>	Follow-up in 14 days
				breastmilk and feed	>	✓ Discharge to join normal CWC if
				with a cup		W/A >-2SD
			>	If child has no		
				prospects of		
				breastfeeding, counsel		
				on other milk intake		
			>	Refer urgently to		
				hospital (IPC)		

* For all scheduled nutrition counseling (6 weeks, 14 weeks, 6 months, 9 months, 12 months, 18 months and 24 months) visits and when growth faltering is identified, conduct a nutrition counseling and fill the nutrition counseling table.

step:	s counseling process	
Unit	5. Investigating Causes of Malnutrition	Participants Manual Module 6 Unit 5
_	Explain how to fill the nutrition counseling table dictary assessment table in user guide Pg. 25-2 MCHRB-Pg. 49/50 using dictary assessment table for the part of	26 and nutrition counseling table for child on a in user guide Pg. 45-47.
	Using one case study each on Pg.26 and Pg.47 table for a pregnant woman and a child.	of the User Guide, demonstrate how to fill the
	Group participants in 3's- health worker, pregnar will be given a case study on Pg. 26 and Pg. 47 to	, , , , , , , , , , , , , , , , , , , ,
	Let each group conduct roll play of nutrition according to the Algorithms. Let the health we participants manual.	
	Conduct feedback session	
Un:	it 4. Group work/Role play: How to practice Re Select two participants per one scenario; eg, a mi and a CHN and a mother for the scenario B. Sel scenario and a copy of MCHRB.	dwife and a pregnant woman for the scenario A
	Let selected participants conduct a 3 to 5-minutes considering Counseling Skills and 'Respectful Ca	

- After each role-play, audience (participants) should discuss positive and negative points based on knowledge of Respectful Care and Counseling Skills.
- ☐ The following issues also should be discussed among participants; group discussion and presentations
 - What should you do when you notice that your colleague/ your in-charge is providing services in a disrespectful manner?
 - How do you manage a 'difficult' client? :eg, a client who refuses to take simple instructions from health workers, uncooperative client.
 - How would you manage clients who refuse critical services based on religious or cultural reason?

	>	How can we create supportive and friendly environment for women/mother/children?
	>	How do you deal with personal stress/anger to avoid displacement onto client?
□ Un		velop 'Philosophy of Care' with your colleagues to be displayed at your unit. Group discussion
	_	roups, discuss how to organize basic nutrition counselling service as a part of routine ANC CWC services in your facility/in your sub-district.
		How are current ANC and CWC arrangements/flows/organizations and how it will be re-organized/modified?
		➤ Who will lead/be responsible for provision of nutrition counselling service?
	Con	duct plenary and summarize

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Commerce and a control of	
Scenario A: Counseling at ANC	Scenario A: Counseling at ANC
Midwife, Margaret Awuni	Pregnant women, Madam Nancy Mensah.
Today is 16 August 2019.	Today is 16 August 2019.
Working at Adenta district hospital.	This is the 5th ANC.
This is the first time the midwife is seeing Madam Nancy Mensah,	Pregnant woman is a little nervous today, because a midwife
because her regular midwife is on leave.	wasn't friendly during the last ANC contact.
Madam Nancy Mensah came to the health center for her 5th ANC contact In these days, she has been having constitution with black and	In these days, she has been having constipation with black and
at 30 weeks of gestation in 2 nd trimester with lab result.	hard stools.
Midwife has already checked and recorded Weight, Bp, Urine, fundal	
height, presentation, descent and FHR.	
Midwife now starts health and nutrition counseling based on the clients	
results. See the attached records to check the results	

Scenario B: Counseling at CWC	Scenario B: Counseling at CWC
Community Health Nurse (CHN), David Addo	Mether and her child, Madam Fosua and baby John
Today is 1 October 2019. Working at Bongo health center.	Today is 1 October 2019
Madam Fosua and her child of 9 months are well known to the CHN.	Mother came to Bongo health center for her childis 9 months
CHN already checked his weight and length.	checkup. Mother heard that her neighbor's child has
CHN observed that the child can sit unsupported and hold a biscuit which developmental problem and went to hospital for a consultation	developmental problem and went to hospital for a consultation
mother gave him. See the attached records to check weigh and length.	with specialist. Although her son is fine, she is worrying and
	anxious about her son's development.

Scenario A

Records of current pregnancy

First day of the last menstrual period (L.M.P.)	Date: 18 / 1 / 2019				
Estimated Date of Delivery (EDD)	By SCAN o(LMP) Date: 25 / 10 / 2019				
Height 161 cm	Weight at ANC1 (Before 12 weeks) 52 kg				
BMI at ANCI (Before 12 weeks) 20.0	Estimated desired weight at EDD63.5 - 68kg				
Type of contraception used before this pregnancy (If any)	None				

		Inves	tigations		
Tests	Date	Results	Tests	Date	Results
Blood Group	29 / 3 /2019	A/B/OAB	Hb* (first visit)	29/ 3/2019	11.5g/dl
Rh typing	29 / 3 /2019	Positive / Negative	Repeat Hb*	k I	
HBaAg	29 / 3 /2019	Negative / Positive	Repeat Hb* (at 28 weeks)	2/ 8 2019	10.9g/dl
Sickling	29 / 3 /2019	Negative / Positive (AS/SS/SC/AC/Other)	Repeat Hb*	ī ī.	
GEPD	29 / 3 /2019	No Defect / Pull Defect / Partial Defect	Repeat Hb* (at 36 weeks)	1 7	
VDRL/Syphilis	29 / 3 /2019	Negative / Positive	Repeat Hb*	1. 1.	
HIV Antibody	29 / 3 /2019	280	Urine RE	1. 1.	
Repeat HIV Antibody (before Sérveika)	E L		Repeat Urine RE	1. 7	
BF for Malaria	29 / 3 /2019	Negative / Positive	Stool RE	1.7	

^{*} If Hb is below 11g/dl, refer to protocol. All laboratory /investigation results must be reviewed before next routine visit is scheduled. If the results is abnormal, please write with red pen.

			Ultrasour Resu			
	Date	Placenta location	Amniotic Fluid Volume	Gestational Age	Presentation	Any Abnormality (specify)
First Scan (below 20 weeks)	26/4/20:	Anterior Low	Abnormal	14 weeks	1.5	N.A.D
Second Scan (after 82 weeks)	1-1	Posterior/ Anterior/ Low	Normal/ Abnormal			
Other	1.5	Posterior/ Anterior/ Low	Normal/ Abnormal			

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BP (mmHg	110/7	108/7	7/001	110/7	112/7											
		4.0	5.5	7.5	0.0							П				
18	19.5	19 5	19 5	195	196			L		Ш						
1	3 20	5 20	6 20	7 20	8 20	1	1.	7	1	1	1	4	1	1	1	Ţ
Q	29/	24/	21/1	19/	16/1	T.	1	9	-	1	1	3	-	-	-	
	Date Weigh RP (-Others) Care Pennish December Residue Dec	Weight 12 Completion Co	Second S	Current Curr	Completion Com	Completion Com	Completion Com	Completion Com	Completion Com	Para Para	Para Para	Para Para	Para Para	Para Para	Para Para	Part Part

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Scenario B

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Growth Paramotors

Date of birth 25 / 12 / 2019

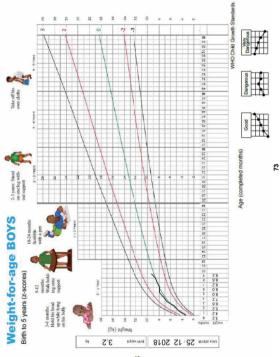
Date	Age (month)	Weight*	Length/Beight ** (cm)	Romarks ***	Name & Signature	Date of Next Vait
5 / 2 / 2019	1	4.2			Monica Mensah	5/3/2019
5 / 3 / 2019	2	5.2			Monica Mensah	2 / 4 / 2019
2 / 4 / 2019	3	9.9	62		Felicia Anthony	7 / 5 /2019
7 / 5 / 2019	4	7.2			Rosemond Arthur	4 / 6 /2019
4 / 6 / 2019	5	8.0			Monica Mensah	2 / 7 / 2019
2 / 7 / 2019	9	8.0	29		Rose Oran	6 / 8 / 2019
6 / 8 / 2019	7	8.2			Rose Oran	3 / 9 /2019
3 / 9 /2019	80	9.8			Monica Mensa	3 / 9 /2019
1 / 10/2019	6	9.2	72			1 1
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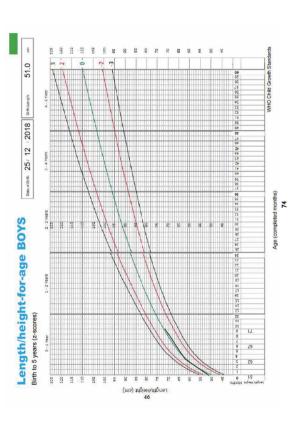
43

^{*} Weight should be measured monthly for O-1 year, quarterly for 1-2 years, and half-yearly for 2-5 years.

^{**} Langth/Height should be measured every 3 months from 0 to 2 years of age and every 6 months from 2 to 5 years of age.

^{***} If you measure MUAC Offict Upper Arm Circumference), please fill in the Remarks column.





Nutrition Counseling Table

		AS	Assessment of Growth	th		Analysis	Action	Remarks	
	Weight (kg) Z-score*	Height (cm)	Interpretation of Chartor Curve	Recent History of Illness	Recent History of Feeding	List Identified Gaps in Feeding and Care	Recommended Actions (Doable options agreed with Client)	(Additional notes on Assessment, Analysis and Actions)	Name & Signature
2/4/	6.6 Normal	62 Normal	Normal growth	None	Exclusive breastfeedin 10 times/day	Exdusive No gap breastleeding 10 times/day	Continue exclusive breastfeeding		Mary Mensah
27, 2019	8.0 Normal	67 Normal	Normal growth	Diarrhea a Exclusive week ago breastfeedi and 10 times/de	Exclusive breastfeeding 10 times/day	No gap	Start complementary feeding 2 or 3 times/day		Mary Mensah
1/10	9.2 Normal	72 Normal							
1 /									

* Mark in red if Z-score of plotted point (weight or height) is below - 2.

Nutrition counseling should be conducted at 6weeks, 14weeks (3months), 6months, 9months, 18months, 18months and 24months.