





ANEMIA MUKT BHARAT TRAINING TOOL KIT



Reproductive and Child Health Division Ministry of Health and Family Welfare Government of India November 2019

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INTRODUCTION

The Ministry of Health and Family Welfare (MoH&FW) has launched Anemia Mukt Bharat Programme with special focus on the health and nutrition needs of children, adolescents, women of reproductive age group and pregnant mothers and lactating mothers.

This will be achieved through six interventions, implementation of which will be facilitated by six robust institutional mechanisms. To facilitate seamless implementation of the interventions, a training tool kit has been developed which will be used to orient and train different stakeholders at various levels for effective implementation of Anemia Mukt Bharat (AMB) strategy.

Guiding principles:

- i. Beneficiary centred approach: Commitment to improve health outcomes and reduce anemia prevalence among the target age groups
- ii. Inclusive partnerships: Facilitate participation of all stakeholders to achieve the common goal
- iii. Accountability: Commitment to inculcate accountability for service delivery among all service providers
- iv. Minimizing duplication: Leverage existing institutional mechanisms for capacity building processes

Contents of the training tool kit:

Unit 1: Anemia- An Introduction

Unit 2: Test and Treat Anemia

Unit 3: Talk Anemia

Unit 4: IFA Supply Chain Management

Unit 5: AMB Dashboard Portal

Purpose of AMB training tool kit:

The training tool kit is developed for diverse set of stakeholders (programme managers, medical officers, staff nurse, ANM, procurement managers, data entry operators, teachers, ASHAs and AWWs) to enable them to function effectively and understand their role for effective implementation of various components under AMB. All the stakeholders have been categorized under three groups according to capacity development requirement.

- **Group 1-Managers:** Programme and Process Managers (Procurement, Distribution, Reporting, Pharmacist etc.), Data Entry Operators
- Group 2-Service providers: Medical Officers, Staff Nurse, ANM
- Group 3-Field functionaries: ASHA, AWW, Teachers

Group	Training requirement on tool kit
Group 1-Managers	Anemia-Introduction, AMB Dashboard, IFA Supply Chain Management (Planning- forecasting- Indent- procurement- Storage and Distribution- Reporting)
Group 2-Service	Anemia-Introduction, Test-Treat Anemia, Talk Anemia: Solid Body, Smart
Providers	Mind Campaign, IFA Supply Chain Management (Indent, Reporting)
Group 3-Field	Anemia-Introduction, Talk Anemia: Solid Body, Smart Mind Campaign,
functionaries	IFA Supply Chain Management (Indent, Reporting)

Plan of training:

A one-day training/orientation of the National trainers (resource persons) will be organized by the National Centre of Excellence and Advanced Research on Anemia Control (NCEAR-A), AIIMS, New Delhi. The National trainers will then train the master trainers at the State and further training of the district- block- field-level functionaries at the States will be planned by the State in a cascade mode.

CONTENT

Unit 1	Anemia: An Introduction	7-13
	Activity 1: Identifying anemia	8
	Activity 2: Introduction to Anemia Mukt Bharat	11
Unit 2	Test and Treat Anemia	15-46
	DIAGNOSIS AND TESTING FOR ANEMIA	16-23
	Session 1: Diagnosis of Anemia	16
	Activity 1: Diagnosing anemia	16
	Session 2: Testing for Anemia	18
	Activity 1: Why to use point of care devices	18
	Activity 2: Hemoglobin estimation using digital hemoglobinometer	19
	PROPHYLAXIS OF ANEMIA	24-30
	Session 1: Prophylactic Iron and Folic Acid (IFA) Supplementation	24
	Activity 1: Iron and folic acid supplementation prevents anemia	24
	Session 2: Deworming	29
	Activity 1: Deworming: Why and how	29
	TREATMENT OF ANEMIA	32-45
	Session 1: Oral Iron Folic Acid Therapy	32
	Activity 1: Service delivery platform for testing and treatment of anemia	32
	Activity 2: Treatment of anemia using iron folic acid (IFA) tablets	34
	Session 2: Parenteral Iron Therapy	38
	Activity 1: Parenteral iron therapy: An introduction	38
	Activity 2: Parenteral iron therapy during pregnancy	40
Unit 3	Talk Anemia: Social & Behaviour Change Communication on	
	Solid Body, Smart Mind Campaign for Service Providers	
		47.40
	& Field Functionaries	47-62

Session 1: Understanding the Behaviour Change Process	48
Part I: Telling a story using the story cards	49
Part II: Presenting the first chart depicting the seven steps in behaviour change	53
Part III: Sharing of personal experiences in changing behaviour by participants	55
Part IV: Presentations from groups and discussion	55
	50
Session 2: Communication Activities And How to Use Anemia Mukt Bharat	58

Session 2: Communication Activities And How to Use Anemia Mukt Bharat Communication Materials for IPC and Dialogue with Clients

Unit 4	Supply Chain Module for Programme Managers and Service Providers	63-93
	Section 1: Public Health Supply Chain Management	66
	Section 2: IFA Supply Chain Process and Action Plan	69
	Section 3: Roles and Responsibilities of State/district/block Team	84
Llpit 5	Anomia Mult Dharat Dashbaard, One Stan Dartal for	
Unit 5	Anemia Mukt Bharat Dashboard: One Stop Portal for Reporting, Monitoring and Review	95-114
Unit 5	·	95-114 96
Unit 3	Reporting, Monitoring and Review	-
Onit 3	Reporting, Monitoring and Review Session 1: Introduction	96
Unit 3	Reporting, Monitoring and Review Session 1: Introduction Session 2: Data	96 99

AN INTRODUCTION



Activity 1: Identifying anemia Activity 2: Introduction to Anemia Mukt Bharat

Activity 1: Identifying anemia



Duration: 15 minutes

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Objectives:

After the session, the participants will be able to:

- describe anemia and its importance
- identify the signs and symptoms of anemia



Methodology:

Case study, Question Answer Discussion



Materials Required:

Chart papers, Markers, Board, Board markers/Flipcharts, Case study "Reena's story", LCD projector, PowerPoint slides on various signs of anemia

Step 1:	Project the case study "Reena's story	" and ask a participant to read it.
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Reena's story

Reena is a 13-year-old girl. She lives with her parents, two brothers and a younger sister in Rampur, a town in Uttar Pradesh Reena goes to school and also helps her mother with all the household work. Her normal diet is rice and watery dal twice a day, and vegetables once a while. She is very fond of noodles and burgers which she frequently enjoys in the school canteen during recess. She feels very weak and is always exhausted. Her grades are falling as she cannot concentrate in the class. She feels irritable and does not like playing as she starts panting even on slight effort.

Step 2:

Lead a discussion by asking:

- What has happened to Reena?
- What other signs and symptoms might Reena be having?

Facilitator's Guide 1.1

Signs and symptoms of anemia

Definitive diagnosis of anemia is made by estimation of hemoglobin (Hb) levels in the blood. However, there are some signs and symptoms that may assist in identifying anemia. They include:

- Paleness or pallor in the inner rims of the lower eyelid (lower palpebral conjunctiva)
- Tongue
- Overall skin
- Nails and palms of the hand
- Soreness of the tongue
- Cracks at the corners of lips
- Brittle and spoon shaped nails
- Dizziness, tiredness, fatigue and low energy
- Unusually rapid heartbeat, particularly during exercise
- Shortness of breath
- Frequent headaches, particularly with exercise
- Lethargy, lack of interest in playing and studies
- Difficulty or inability to concentrate
- Leg cramps
- Lowered resistance to infections and frequent illness

Step 4:

Project the following PowerPoint slides (without the headings) on various clinical signs of anemia and ask the participants to identify them.

[Alternatively, a short (10 Min) video can be shown]



Step 5:

Conclude by emphasizing "The signs and symptoms of anemia may not be clinically visible until anemia status is severe. However, negative health consequences occur even before the onset of severe anemia."

Activity 2: Introduction to Anemia Mukt Bharat



Duration: 20 minutes

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Objectives:

After the session, the participants will be able to:

• list the strategies under Anemia Mukt Bharat



Methodology:

PowerPoint presentation, Discussion



Materials Required:

LCD projector, PowerPoint slides on various signs of anemia

Slide 1 ANEMIA MUKT BHARAT

Intensified National Iron Plus Initiative Program

Target for accelerating the annual rate of decline of anemia from one to three percentage points.

6x6x6 strategy

6 Beneficiaries:

- 1. Children 6-59 months
- 2. Children 5-9 years
- 3. Adolescent girls and boys (10-19 years)
- 4. Women of reproductive age (15-49 years)
- 5. Pregnant women
- 6. Lactating mothers

6 Interventions:

- Prophylactic Iron Folic Acid Supplementation
- Deworming

- Intensified year-round Behaviour Change Communication Campaign including assured delayed cord clamping
- Testing of anemia using hospital digital methods and point of care treatment
- Mandatory provision of iron folic acid fortified food in public health programmes
- Addressing non-nutritional causes of anemia in endemic pockets, with special focus on malaria, hemoglobinopathies and fluorosis

6 Institutional mechanisms:

- Intra-ministerial coordination
- National Centre of Excellence and Advanced Research on Anemia Control
- Strengthening supply chain and logistics
- National Anemia Mukt Bharat Unit
- Convergence with other Ministries
- Anemia Mukt Bharat Dashboard and digital portal—one-stop shop for anemia

What is new?

- 1. Routine Testing and Treating for adolescent girls and boys in government and governmentaided schools (through RBSK) and pregnant women (ANC clinics)
- 2. Delayed cord clamping
- 3. Switch from 100 mg to 60 mg elemental iron in prophylactic dose of elemental iron for women and adolescents. The IFA tablets will be sugar coated.
- 4. Mandating use of fortified food in public health programmes
- 5. Special focus on use of double fortified salt -iodine and iron
- 6. Use of invasive digital methods of hemoglobin estimation and point of care treatment.
- 7. Using Intra venous Iron Sucrose/Ferric Carboxy Maltose for management of moderate/ severe anemia.
- 8. Special focus on newly-wed women 20-24 years.
- 9. Covering private schools in addition to government/government aided schools
- 10. Setting up Programme Management Units for Anemia Mukt Bharat at National and State levels
- 11. Denominator and HMIS based quarterly progress reports and awards
- 12. Dedicated AMB dashboard and portal (www.anemiamuktbharat.info)
- 13. Strengthening programmes to address non-nutritional causes of anemia with special focus on linkage with malaria, fluorosis and haemoglobinopathies
- 14. Establishment of National Centre of Excellence and Advanced Research on Anemia Control at All India Institute of Medical Sciences (AIIMS), New Delhi
- 15. State Institutes of Excellence and Advanced Research on Anemia Control
- 16. Creating a Jan Andolan through intensive communication and newly developed communication material and communication activities

Step 6:

Conclude the activity by saying that the Anemia Mukt Bharat campaign envisages the detailed guidelines for prevention and treatment of anemia as Intensified National Iron Plus Initiative Program.



Points to remember:

- ☑ Anemia is present when there is less haemoglobin levels as per age and sex
- Anemia leads to poor health, economic loss and social burden
- Anemia can be diagnosed by estimation of hemoglobin (Hb) levels in the blood and clinical signs and symptoms
- Anemia is caused by nutritional deficiency, infections and genetic illnesses leading to poor production, more destruction of red blood cells or blood loss
- ✓ The signs and symptoms of anemia may not be clinically visible until anemia status is severe. However, negative health consequences occur even before the onset of severe anemia
- ✓ The prevalence of anemia across all ages has been more than 50% amongst the vulnerable groups in India and in the last 10 years, the percentage point reduction of anemia prevalence has been extremely low in most age groups
- Anemia control programme in India started in 1970 as National Nutritional Anemia Prophylaxis Program (NNAPP) and evolved in 2018 as Anemia Mukt Bharat.

TEST AND TREAT ANEMIA



DIAGNOSIS AND TESTING FOR ANEMIA

Session 1: Diagnosis of Anemia Activity 1: Diagnosing anemia

Session 2: Testing for Anemia

Activity 1: Why to use point of care devices Activity 2: Hemoglobin estimation using digital hemoglobinometer

PROPHYLAXIS OF ANEMIA

Session 1: Prophylactic Iron and Folic Acid (IFA) Supplementation Activity 1: Iron and folic acid supplementation prevents anemia

Session 2: Deworming

Activity 1: Deworming: Why and how

TREATMENT OF ANEMIA

Session 1: Oral Iron Folic Acid Therapy

Activity 1: Service delivery platform for testing and treatment of anemia Activity 2: Treatment of anemia using iron folic acid (IFA) tablets

Session 2: Parenteral Iron Therapy

Activity 1: Parenteral iron therapy: An introduction

Activity 2: Parenteral iron therapy in pregnancy

DIAGNOSIS AND TESTING FOR ANEMIA

Session 1: Diagnosis of Anemia

Activity 1: Diagnosing anemia



Duration: 15 minutes



Objectives:

After the session, the participants will be able to:

- State the hemoglobin levels as criteria for diagnosis of anemia in various age groups
- Assess the severity of anemia based upon the diagnostic criteria in various age groups



Methodology:

PowerPoint presentation Discussion



Materials Required:

LCD projector, PowerPoint slides

Step 1: Welcome the participants and remind them about Module 1 wherein they have learnt about identification of anemia

Step 2: Ask the participants:

What are the ways to assess whether a person is anemic?

Note down the responses on the board/flipchart. The responses may be:

- ... by identification of signs and symptoms
- ... by estimation of hemoglobin

Step 3: Thank the participants and say, "the diagnosis of anemia has to be based upon some criterion. Also, the identification of signs and symptoms helps to identify anemia, it does not accurately help to assess the severity of anemia.

Population	No Anemia (gm/dL)	Mild Anemia (gm/dL)	Moderate Anemia (gm/dL)	Severe Anemia (gm/dL)
Children 6-59 months of age	≥11.0	10-10.9	7.0-9.9	<7.0
Children 5-11 years of age	≥11.5	11.0-11.4	8.0-10.9	<8.0
Children 12-14 years of age	≥12.0	11.0-11.9	8.0-10.9	<8.0
Non-pregnant women (15 years of age and above)	≥12.0	11.0-11.9	8.0-10.9	<8.0
Pregnant women	≥11.0	10.0-10.9	7.0- 9.9	<7.0
Men (15 years of age and above)	≥13.0	11.0-12.9	8.0-10.9	<8.0

Step 4: Project the PowerPoint Slide 1

Source: (WHO 2011)

- **Step 5:** Let a volunteer read the criteria for diagnosing anemia and assessing its severity for a particular age group. Continue the process till all age groups are covered. Answer the questions, if any.
- **Step 6:** Summarize the activity by saying the diagnosis of anemia and its severity is decided by World Health Organization (WHO) criteria for diagnosis and assessment of anemia based upon the haemoglobin levels for various age groups.

Session 2: Testing for Anemia

Activity 1: Why to use point of care devices



Duration: 10 minutes



Objectives:

After the session, the participants will be able to:

Measure hemoglobin level by using digital hemoglobinometer



Methodology:

Discussion

Materials Required:

LCD projector, AV Film on using digital hemoglobinometer

- Step 1: Remind the participants about the six interventions in "Anemia Mukt Bharat" campaign
- **Step 2:** Tell them "testing of hemoglobin using digital hemoglobinometers and Point of Care treatment of anemia" is a new intervention under Anemia Mukt Bharat campaign. Mass screening for anemia amongst the vulnerable age groups is imperative for initiation of appropriate treatment as per the severity of anemia.

Step 3: Tell them the devices for testing of anemia at facility level and field level are as follows:

- 1. At the facility level (block level and above):
 - Hemoglobin level estimation will by using Semi-Auto Analysers.
- 2. At the health facilities below block level (where haematology analysers are not available) and field level:
 - Digital hemoglobinometer will be used for testing of hemoglobin level. The digital hemoglobinometers are point of care testing devices, as they can be used for estimation of hemoglobin, near the beneficiary (for example, at his/her home) outside the hospital.

Discuss the advantages of using Point of Care devices using Facilitator's Guide 2.1

Facilitator's Guide 2.1

Advantages of using Point of Care devices

- Faster access to test results which helps in rapid clinical decision making and treatment, ultimately leading to improved health outcome
- Relative ease of obtaining the blood samples compared to venepuncture, especially in children. Capillary sampling can be done from finger, heel or ear lobe
- Less volume of blood sample is required
- Larger number of beneficiaries can be served in a defined period of time
- Overcomes operational limitation of visiting the health facility by the beneficiaries
- No loss to follow up

Step 4: Conclude the activity by saying that Point of Care digital hemoglobinometer devices have great advantages over traditional Sahli's haemoglobinometer and hence they are used for mass screening of anemia.

Activity 2: Hemoglobin estimation using digital hemoglobinometer



Duration: 40 minutes



Objectives:

After the session, the participants will be able to:

Measure hemoglobin level by using digital hemoglobinometer



Methodology:

Discussion AV Show /Demonstration using checklist



Materials Required:

LCD projector, AV Film on using digital hemoglobinometer

Step 1:

Inform them in the present activity, they will be learning how to use a digital hemoglobinometer for estimating the hemoglobin levels.

Emphasize the use digital hemoglobinometer for estimation of hemoglobin is approved by WHO and Indian Council of Medical Research (ICMR). The digital hemoglobinometer devices provided by the manufacturer should be approved for clinical use by a reputed regulatory authority, e.g. FDA, European CE and other relevant Indian regulatory authority.

Step 2: Start audio-visual show and discuss the various steps in using a digital hemoglobinometer.

Checklist for estimation of hemoglobin using digital hemoglobinometers:

- 1. Digital hemoglobinometers with batteries or charger
- 2. Microcuvettes or strips
- 3. Lancets
- 4. Alcohol swab/ spirit cotton
- 5. Unsterile gloves
- 6. Tissue paper
- 7. Biohazard container to dispose the used lancets, microcuvettes/strips
- I. Choose the third (middle) or fourth (ring) finger of the non-dominant hand for the finger prick





- Avoid the thumb and little finger
- Avoid fingers with thick calluses
- Avoid fingers with tight rings as they may constrict blood flow

- II. Ask the subject to rub their hands to promote blood flow
- III. Wipe the fingertip with the alcohol pad and let it air dry completely



Precautions:

- Do not blow on the finger to dry the alcohol
- Do not wipe off the alcohol
- Do not perform the finger prick until alcohol is completely evaporated



IV. Hold the finger firmly just below the centre of the fingertip



- V. Press and trigger the lancet flat and firmly against the finger at the puncture sites away from the midline as shown in the figure 4
- VI. Discard lancet in biohazard container
- VII. Release pressure and allow a full drop of blood to collect on finger
- VIII. Once a drop of blood has collected on the finger, use the cotton or tissue to wipe away the first drop of blood
- IX. Use the second or third drop of blood for estimation of hemoglobin

Select the type of testing device used:

- a. Testing haemoglobin using microcuvette
 - 1. Turn "ON" the meter. After the monitor shows three dashes, pull the cuvette holder in its loading position



Figure 5: Cuvette holder in loading position

- 2. Fill the microcuvette in one continuous process. The correct amount of blood (10 µl) is drawn into the microcuvette. The microcuvette should be completely filled
- 3. Wipe away any excess blood on the outside of the microcuvette tip
- 4. Check for air bubbles in the filled microcuvette. If present, use a new microcuvette



- 5. Place the filled microcuvette in the cuvette holder (within 40 seconds after filling the cuvette)
- 6. Push the cuvette holder to its measuring position
- 7. Read and record the result. Remove and discard the microcuvette in the appropriate bio-hazard container. Push the cuvette holder back into the instrument





Precautions in using Microcuvette

- 1. Use the microcuvettes prior to its expiry date.
- 2. Store the microcuvettes at 10°C 40°C. Do NOT refrigerate.
- 3. An unopened box is stable till the date of expiry (printed on the package) at the temperature 10°C to 40°C.
- 4. An opened box is stable for a period 3 months from the date of opening the box or the date of expiry, whichever is earlier.
- 5. However, at temperature <10°C or >40°C both opened and unopened boxes are stable only for a period of 6 weeks.
- 6. Store the analyser at 0°C to 50°C. Operate the analyser at 10°C to 40°C, 5 to 90% noncondensing relative humidity.

b) Testing of hemoglobin level using strip

- 1. Turn ON the meter. The system undergoes an autocheck and auto-calibration after which the battery level, date, time and strip's batch code are displayed within 2 seconds.
- 2. Enter the code mentioned on the strip bottle.
- 3. The meter will flash a 'strip' symbol on the display. Insert a fresh test strip into the meter with the arrows on the strip facing up and pointing towards the display.
- 4. Ensure the correct positioning of the strip with the guiding V notch.



- 5. The meter will flash a 'drop' symbol on the display. Allow the second drop of the blood to fall to completely cover the white-coloured test area.
- 6. Read and record the result.
- 7. Remove the used test strip from the meter and dispose in appropriate biohazard container.
- Step 3: Summarize the activity by saying that hemoglobin estimation by a digital hemoglobinometer can be done either using microcuvette method or strip method. However, one should prick only the middle or ring finger and follow the steps laid down for microcuvette method or strip method, correctly.



- ✓ "Testing of hemoglobin using digital hemoglobinometers and Point of Care treatment of anemia" is a new intervention under Anemia Mukt Bharat campaign.
- ✓ Point of Care devices have great advantages over traditional Sahli's hemoglobinometer and hence they are used for mass screening of anemia.
- ☑ Point of care devices should be approved for clinical use by reputed regulatory authority e.g. FDA, European CE and other relevant Indian Regulatory Authority.
- A digital hemoglobinometer is a Point of Care device which can be used to estimate hemoglobin level using microcuvette or strip method.

PROPHYLAXIS OF ANEMIA

Session 1: Prophylactic Iron and Folic Acid (IFA) Supplementation

Activity 1: Iron and folic acid supplementation prevents anemia



Duration: 30 minutes

Objectives:

After the session, the participants will be able to:

• prescribe the dosage for prophylactic iron and folic acid supplementation in various age groups



Methodology:

Pairing exercise PowerPoint presentation Discussion



Materials Required:

Flipchart/White board, Markers, Pre-prepared Red and Blue Slips, LCD projector, PowerPoint slides



1: Lead the discussion by asking the participants:

 Why prophylaxis is needed for anemia? Note down the responses on the flipchart/ board.



Say, "Prophylaxis of anemia is important for prevention of anemia. It has two components:

- Iron and Folic Acid (IFA) supplementation which helps to replenish the body iron and folic acid stores and meets the iron and folic acid needs of the body at all ages, irrespective of anemia status.
- Deworming which helps to kill worms which cause loss of iron and protein leading to anemia



Step 4: Take a bowl containing the following Red and Blue slips:

Red slips

Children 6-59 months of age	Children 5-9 years of age	School-going adolescent girls and boys (10-19 years) and out-of-school adolescent girls 10-19 years of age
Women of reproductive age (non-pregnant, non- lactating) 20-49 years	Pregnant women	Lactating mothers (0-6 months child)

Blue slips

Bi-weekly, 1 ml of iron and folic acid syrup. Each ml of iron and folic acid syrup containing 20 mg of elemental iron +100 mcg of folic acid	Weekly, 1 iron and folic acid tablet. Each tablet containing 45 mg of elemental iron + 400 mcg of folic acid	Weekly, 1 iron and folic acid tablet. Each tablet containing 60 mg of elemental iron + 500 mcg of folic acid
Weekly, 1 iron and folic acid tablet. Each tablet containing 60 mg of elemental iron + 500 mcg of folic acid	Daily, 1 iron and folic acid tablet starting from the fourth month of pregnancy (that is from the second trimester), Continued throughout pregnancy (minimum 180 days) Each tablet containing 60 mg of elemental iron + 500 mcg of folic acid	Daily, 1 iron and folic acid tablet To be continued for 180 days, postpartum Each tablet containing 60 mg of elemental iron + 500 mcg of folic acid

Mix both the slips.

- Step 5: Ask 12 volunteers to come out of the group and pick up one slip each. Let them go and sit on their seats
- **Step 6:** Tell them each "Red slip" represents a population group and the "Blue slip" contains the prophylactic dose and dosage of iron and folic acid corresponding to the population group
- **Step 7:** Let both the groups of the volunteers interact for 5 minutes.

Ask each volunteer having "Red slip" to make a pair with the volunteer having "Blue slip" containing the correct dose and dosage of iron and folic acid.

Step 8: After 5 minutes, ask one pair to come forward and read the red slip followed by blue slip.

Ask the larger group whether the dose and dosage of iron and folic acid in "Blue slip" correspond to the population in "Red slip."

Let the process continue till the last pair.

Step 9: Project PowerPoint Slide 1 and answer questions, if any.

Slide 1

Prophylactic dosage for iron and folic acid supplementation

Population	Prophylactic dosage for iron and folic acid supplementation
Children 6-59	
months of age	Bi-weekly, 1 ml of iron and folic acid syrup. Each ml of iron and folic acid syrup containing 20 mg of elemental iron + 100 mcg of folic acid.
()	Bottle (50 ml) to have an 'auto-dispenser' and information leaflet as per MoHFW guidelines in the mono-carton.
	Prophylaxis with iron and folic acid should be withheld in case of acute illnesses (fever, diarrhoea, pneumonia, etc.), and in a known case of thalassemia major/ history of repeated blood transfusion. In case of severe acute malnutrition (SAM) children, IFA supplementation should be continued as per SAM management protocol.
Children 🔔 👝	Weekly, 1 iron and folic acid tablet.
5-9 years of age	Each tablet containing 45 mg of elemental iron + 400 mcg of folic acid sugar-coated, pink-colour.
School-going	Weekly, 1 iron and folic acid tablet.
adolescent girls and boys (10-19 years of age) and out-of-	Each tablet containing 60 mg of elemental iron + 500 mcg of folic acid sugar-coated, blue-colour
school adolescent girls, 10-19 years of age	All women in the reproductive age group (15-49 years) are advised to have 400 mcg of folic acid tablets, daily during the period of pre-conception up to the first trimester of the pregnancy, to reduce the incidence of neural tube defects in the foetus.
Women of	Weekly, 1 iron and folic acid tablet.
reproductive	Each tablet containing 60 mg of elemental iron + 500 mcg of folic acid
age (non-pregnant,	Sugar-coated, red-colour
non- lactating) 20-49 years	All women in the reproductive age group (15-49 years) are advised to have 400 mcg of Folic Acid tablets, daily during the period of pre-conception up to the first trimester of the pregnancy, to reduce the incidence of neural tube defects in the foetus.
Pregnant women	Daily, one iron and folic acid tablet starting from the fourth month of pregnancy (that is from the second trimester)
Res Contraction	Continued throughout pregnancy (minimum 180 days during pregnancy). Each tablet containing 60 mg of elemental iron + 500 mcg of folic acid, sugar-coated, red-colour

Lactating mothers	•	Daily, one iron and folic acid tablet
(with 0-6 months	•	To be continued for 180 days, postpartum
child)	•	Each tablet containing 60 mg of elemental iron+ 500 mcg of folic acid
	•	Sugar-coated, red-colour

	Propriyactic in A service derivery platform	
Age group	Service delivery platform	
Children 6- 59	ASHA will receive required number of IFA bottles from PHC/SC	
months	For each child ASHA will provide biweekly dose of IFA syrup for 1st week	
	ASHA will train mother to administer IFA syrup and also recording/ marking in the IFA compliance card	
	• From 2nd week onwards up to the month end (remaining six doses of the month), mother will administer IFA syrup to the child under ASHA supervision. ASHA will undertake fortnightly home visits and encourage mothers to administer IFA syrup in her presence	
	• Thereafter mother will administer biweekly IFA syrup to her child on her own and mark the same on IFA compliance card	
	ASHA will supervise the mothers time-to-time	
Children 5-9 years	In school children	
* *	Weekly once Pink IFA tablets will be provided through Spot feeding approach	
	 In Government and aided schools - IFA tablets will be provided after mid- day meal 	
	In Private schools - IFA tablets will be provided after lunch break	
	Out of school children:	
	ASHA will provide IFA tablets during home visits	
Adolescents 10-19	School going adolescent 10-19 years:	
years	Weekly one blue IFA tablet will be given by school teachers	
۲	Out-of-school adolescent girls 10-19 years	
	Blue IFA tablet will be provided through quarterly Adolescent Health Day of Rashtriya Kishore Swasthya Karyakram (RKSK) at Anganwadi centres	

Prophylactic IFA service delivery platform

Women of reproductive age group	 States are encouraged to integrate provision of IFA tablets, folic acid tablets and deworming to WRA through immunization day/VHND platform wherever feasible
	 To begin, 20-24 years WRA will be provided IFA tablet in Nayi Pehal Kit using Mission Parivar Vikas platform
	States should ensure preparation of eligible couple register
K A	 ASHA will mobilize target beneficiaries (WRA) to VHNDs – ANM will counsel them on IFA consumption and deworming (albendazole) to prevent anemia
	• If the WRA is planning for pregnancy, she should be counselled to stop IFA supplementation and initiate Folic acid supplementation and continue till 12 weeks of pregnancy (first trimester)
	• Folic acid tablets will be provided at VHNDs/SCs by ANM.
Pregnant women	IFA tablets will be provided through antenatal care contacts (ANC clinics/ VHND/PMSMA)
Lactating women	IFA tablets through VHND platform when they bring their child for immunization

Step 10: With the help of Facilitator's Guide 2.2, explain the important information while consuming IFA supplementation

Facilitator's Guide 2.2

Consumption of IFA supplementation: Things to remember

IFA tablets to be taken preferably about one hour after major meals to prevent side effects such as nausea.

Beneficiaries complaining of side effects are advised to take the IFA supplements after dinner and before sleeping.

IFA supplement should be consumed along with foods rich in vitamin C such as lemon in the form of *nimbu-paani, amla* (Indian gooseberry) etc. for improving the absorption of iron.

Drinking of tea or coffee within an hour of consuming IFA should be discouraged, as it may reduce the iron absorption.

Iron and calcium tablets should **not** be consumed together, as calcium interferes in iron absorption. At least two hours of interval should be there between calcium and iron tablet consumption.

Session 2: Deworming

Activity 1: Deworming: Why and how



Duration: 30 minutes

Objectives:

After the session, the participants will be: Sensitized on the importance of deworming in prevention and treatment of anemia

• Deworm various population groups following correct dose and regime



Methodology:

PowerPoint presentation discussion



Materials Required:

LCD projector, PowerPoint slides

Step 1:

Lead the discussion by asking:

- 1. Why deworming is important for prevention and treatment of anemia?
- 2. Add the missing information using Facilitator's Guide 2.3

Facilitator's Guide 2.3

Deworming

Soil-transmitted helminths – which include roundworms (*Ascaris lumbricoides*), whipworms (*Trichuris trichiura*) and hookworms (*Necator americanus and Ancylostoma duodenale*) – are among the common causes of infestation in people who live in the developing world.

Soil-transmitted helminths impair the nutritional status of an individual by multiple ways including:

- Feeding on host tissues, including blood, which leads to a loss of iron and protein
- Internal bleeding which can lead to loss of iron, intestinal inflammation and obstruction
- Diarrhoea
- Impairment of nutrient intake, digestion and absorption

Due to poor hygiene and open defecation practices, worm infestation has a high prevalence in our country across all ages.

Worm infestation (particularly hookworm infestation) along with nutritional deficiency is an important cause of anemia and thus deworming is an important intervention for prophylaxis for anemia.

Step 2:

Discuss the dose and regime for deworming in various population groups using PowerPoint Slide 2

Slide 2

Dose and regime for deworming

	1	
	Population group	Dose and regime for deworming
CO CON	Children 12-59 months of age	Bi-annual dose of 400 mg albendazole (½ tablet to children 12–24 months and 1 tablet to children 24–59 months)
	Children 5-9 years of age	Bi-annual dose of 400 mg albendazole (1 tablet)
	School-going adolescent girls and boys (10-19 years) and out-of- school adolescent girls 10-19 years of age	Bi-annual dose of 400 mg albendazole (1 tablet)
	Women of reproductive age (non-pregnant, non-lactating) 20-49 years	Biannual dose of 400 mg albendazole (1 tablet)
C.L.	Pregnant women	One dose of 400 mg albendazole (1 tablet), after the first trimester, preferably during the second trimester

Step 3:

Conclude the activity by saying that deworming is an important step towards prevention of anemia along with iron and folic acid prophylaxis. However, correct dose and regime needs to be followed for effective deworming.

Points to remember:

- ☑ IFA supplementation helps to replenish the body stores and meets the needs of the body at all ages, irrespective of anemia status
- ☑ IFA supplement should be consumed along with foods rich in vitamin C for better absorption
- ✓ Worm infestation (particularly hookworm infestation) along with nutritional deficiencies is an important cause of anemia
- ☑ Bi-annual dose of 400 mg albendazole (1 tablet) is given for deworming in all the age groups except children of 12 months to 24 months, wherein half the dose (Tablet Albendazole 200 mg) is given
- ☑ In pregnant women, one dose of 400 mg albendazole (1 tablet), after the first trimester, preferably during the second trimester
- ✓ It is important taking iron-rich foods viz. meat, fish, egg, poultry, green leafy vegetables (mustard, fenugreek (methi), bathua, amaranth leaves, radish leaves), whole pulses (Bengal gram whole, horse gram whole, etc.) and cereals (whole wheat flour, bajra, ragi, jowar). Inclusion of vitamin C rich foods like fruits (gooseberry, guava, lemon, orange, raw mango), vegetables (drumstick leaves, amaranth leaves, capsicum) and sprouts help in improving iron absorption. This helps in prevention of anemia.

TREATMENT OF ANEMIA

Session 1: Oral Iron Folic Acid Therapy

Activity 1: Service delivery platform for testing and treatment of anemia



Duration: 30 minutes

Objectives:

After the session, the participants will be able to:

- · describe the service delivery platforms for testing and treatment of anemia
- discuss the guidelines for oral iron folic acid therapy of anemia in various population groups



Methodology:

PowerPoint presentation discussion



Materials Required:

Board, Markers, LCD projector, PowerPoint slides



Welcome the participants. Remind them about module 1 wherein they learnt about Anemia Mukt Bharat campaign.

- **Step 2:** Ask, "What are the service delivery platforms for IFA supplementation for various population groups?" Note down the responses on the board.
- **Step 3:** Tell that Anemia Mukt Bharat campaign service delivery platforms for IFA supplementation have been identified for various population (beneficiary) groups.
- Step 4: Project the power point Slide 3 on service delivery platforms for IFA supplementation. Answer the questions, if any.
- **Step 5: Conclude** the activity by saying that all the members of the health team must be aware about service delivery platforms for IFA supplementation and the target population should be made aware about the same for screening and treatment of anemia.

Slide 3

Service delivery platforms for testing and treatment of anemia

Target group AChildren 6–59 monthsWho will screen and place of screening• ANM: VHND/sub-centre/session site • RSBK team: AWC/ school • Medical officer: health facilityPeriodicity• RBSK/ANM: as per scheduled microplan • Medical officer: opportunisticTarget group BChildren 5–9 yearsWho will screen and place of screening• RSBK teams will screen in-school and out-of-school children for anemiaPeriodicity• RSBK teams will screen in-school and out-of-school children for anemiaPeriodicity• Once a yearPeriodicity• Once a year• Opportunistic screening, e.g., routine Hb assessment of sick children presenting to health facilityTarget group CAll school going adolescents 10–19 years in government/ government-aided schoolsWho will screen and place of screeningIn school premises by RBSK teamPeriodicityAnnualTarget group DPregnant women registered for antenatal careWho will screen and place of screeningHealth service provider at any ANC contact, including Pradhan Mantri Surakshit Matritva Abhiyaan (PMSMA) All pregnant women will be tested for anemia using digital hemoglobinometers at any ANC contact point			
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hemoglobinometers at any ANC contact point	place of screening		
Periodicity At every ANC contact	Periodicity	At every ANC contact	

The AMB strategy proposes that adolescent girls and boys will be tested for anemia using digital hemoglobinometers, in schools by RBSK team, annually. Similarly, pregnant women will be tested for anemia using digital hemoglobinometers at all ANC contact points. At all high case load facilities at the block level and above, hemoglobin estimation will be done using Semi-Auto Analysers.

Activity 2: Treatment of anemia using IFA tablets



Duration: 45 minutes

Objectives:

After the session, the participants will be able to:

- describe the service delivery platforms for iron folic acid supplementation
- discuss the guidelines for oral iron folic acid therapy of anemia in various population groups



Methodology:

PowerPoint presentation discussion



Materials Required:

Board, Markers, LCD projector, PowerPoint slides



Inform the participants that in the present activity they will be learning about the guidelines for treatment of anemia using IFA tablets

Step 2:

Project the slides containing the flow charts for treatment of anemia in different age groups. Answer the questions, if any.

Flowchart 1: Treatment of anemia amongst children (6-59 months)






Flowchart 3: Treatment of anemia amongst adolescents (10–19 years)



Classification of Anemia:

Population	Mild Anemia (g/dl)*	No Anemia (g/dl)**
Children (10-11 years of age)	11-11.4	≥11.5
Children (12-14 years of age)	11-11.9	≥12
Women (15- 19 years of age)	11-11.9	≥12
Men (15- 19 years of age)	11-12.9	≥13

Flowchart 4: Treatment of anemia amongst pregnant women



Step 3: Distribute the copies of Flowcharts 1–5 to all the participants

Step 4: Summarize by saying mild and moderate anemia can be treated effectively at all ages by recommended dose of IFA tablets. However, after the hemoglobin levels come to normal, prophylactic IFA dose should be provided along with counselling.

Session 2: Parenteral Iron Therapy

Activity 1: Parenteral iron therapy: An introduction



Duration: 45 minutes

Objectives:

After the session, the participants will be able to:

- describe the importance of parenteral iron therapy
- · identify the conditions where parenteral iron therapy is indicated
- provide treatment of anemia with intravenous iron sucrose in pregnancy



Methodology:

Group work and discussion



Materials Required:

Chart papers, Markers, PowerPoint presentation, LCD

Step 1: Welcome the participants and inform them they will be doing a group work

Step 2: Divide the participants into four groups. Distribute the following topics to the groups:

Group 1: Importance of parenteral iron therapy Group 2: Indications of parenteral iron therapy Group 3: Iron sucrose administration: Do's and don'ts Group 4: Iron sucrose administration: Precautions

Step 3: Distribute charts and markers to the groups and let them work for 10 minutes

Step 4: After 10 minutes, let the groups present their work one by one. After each presentation, add the left out information from Facilitator's Guide 2.4

(Alternatively, after each presentation a PowerPoint slide from Facilitator's Guide 2.4 may be projected)

Facilitator's Guide 2.4

Parenteral iron therapy

Why parenteral iron therapy

Oral IFA supplementation is often associated with poor compliance mainly due to side effects such as vomiting, nausea, constipation, indigestion, etc.

Parenteral iron treatment circumvents the natural gastrointestinal regulatory mechanisms to deliver non-protein bound iron to the red blood cells. Intra-venous (IV) iron helps in achieving rapid correction of hemoglobin and iron stores, and is better tolerated than oral iron in treating iron deficiency anemia.

Iron sucrose formulation

Iron sucrose is the most common formulation used for parenteral iron therapy.

Iron sucrose is a non-dextran intravenous iron formulation with a complex of polynuclear iron (III) – hydroxide core bounded by sucrose. It has short half-life of 5–6 hours, which is responsible for relatively rapid erythropoiesis and can provide quick rise in hemoglobin within 5 to 7 days.

Indications

Intra-venous Iron Sucrose (IVIS) may be considered as the first line of management in individuals identified with the following conditions:

- I. Moderate anemia during pregnancy (after the first trimester of pregnancy) and during postpartum period if:
 - Oral iron is not tolerated
 - Non-compliance to oral iron
 - No improvement in hemoglobin level or improvement less than 1gm/dL after one month of oral IFA treatment
- II. Severe anemia (Hb 6.9 to 5 gm/dL) during 13 to 34 weeks of pregnancy

Contraindications:

- I. Patients with evidence of iron overload
- II. Patients with known hypersensitivity to iron preparation or any of its component
- III. Patients with anemia not caused by iron deficiency
- IV. Liver disorder like jaundice, cirrhosis or renal failure
- V. Acute cardiac failure
- VI. Known case of thalassemia, sickle cell anemia or hemolytic anemia

Iron sucrose administration: Dos and don'ts

- Iron sucrose is available in 5 ml vial, with 20 mg of elemental iron per ml of iron sucrose.
- IV iron sucrose should be administered as a slow infusion of 200 mg/dose in 100 ml 0.9% saline administered over 20-30 minutes.
- During the first five minutes, infusion should be given at the rate of 20-30 drops/minute and then increased to 80-90 drops/minute.
- Subsequent doses can be given over a period of 20 to 25 minutes. It is important to administer the drug at this rate since too slow or too fast rates have been associated with side effects.

- Maximum dose should not exceed 600 mg (3 doses of 200 mg each) of iron sucrose in a week.
- Iron sucrose should be administered at primary health care or higher level of health care under the supervision of the medical officer.
- Vital signs such as blood pressure, heart rate, respiratory rate, temperature and foetal heart rate should be monitored before, during (every 5 minutes after initiation of infusion) and at the end of the infusion.
- The expected increase in hemoglobin level for pregnant women with severe and moderate anemia is approximately 2.5 gm/dL and 1.6 gm/dL, respectively after 3 weeks of complete dose of IV iron sucrose treatment.
- To avoid permanent discolouration of the skin due to extravasation of IVIS, patency of the cannula has to be checked by flushing normal saline before initiation of treatment.

Precautions

- All lifesaving equipment should be kept available to deal with any unexpected severe adverse reaction.
- Hand hygiene shall be performed before and after the contact with pregnant women.
- Use sterile and disposable intravenous (IV) infusion set, venflon and syringe.
- Patency of IV cannula has to be ensured, otherwise extravasation of iron could lead to permanent staining of skin.
- Discard the remaining unused drug in the vial after withdrawing the required dose. Do not store the remaining IV iron sucrose for later use.
- In case of any reaction, administer one ampoule of inj. Avil (Pheniramine) and one vial of inj. Hydrocortisone intravenously immediately and contact the medical officer on duty.

Step 6: Conclude the activity by thanking the participants and tell them they will be learning more about parenteral therapy of anemia during pregnancy in the next activity.

Activity 2: Parenteral iron therapy during pregnancy



Duration: 45 minutes

B

Objectives:

After the session, the participants will be able to:

- describe the importance of parenteral iron therapy
- · identify the conditions where parenteral iron therapy is indicated
- provide treatment of anemia with intravenous iron sucrose in pregnancy



Methodology:

Discussion, PowerPoint presentation, Exercise



Materials Required:

Chart papers, Markers, PowerPoint presentation, LCD

Step 1: Welcome the participants and tell them they will be learning about treatment of anemia using intravenous iron sucrose during pregnancy.

- Step 2: Run the PowerPoint presentation and answer the queries, if any.
- Step 3: Distribute Handout 1: Treatment of anemia using intravenous iron sucrose during pregnancy.

Handout 1

Treatment of anemia using intravenous iron sucrose during pregnancy

Indications

Parenteral therapy using intravenous iron sucrose during pregnancy is indicated in:

Moderate anemia during pregnancy (after the first trimester of pregnancy) and during postpartum period if:

- Oral iron is not tolerated
- No improvement in hemoglobin level or improvement less than 1gm/dL after one month of oral IFA treatment

Dosage calculation:

Iron requirement for intravenous administration of iron sucrose can be calculated using Ganzoni's formula.

Total iron deficit (mg) = Body weight* (kg) x (target Hb in gm/dL**– actual Hb in gm/ dL) x 2.4 + 500***

*Pre-pregnancy weight. If pre-pregnancy weight is not available, weight recorded during the first visit of first trimester can be used

**Target Hb for pregnant women = 11.0 gm/dL

***500 mg for replenishing iron stores in the body of women weighing 35 kg

If the pregnant women's weight is less than 35 kg, allowance for iron store = 15mg/kg body weight)

Example:

If a pregnant woman has a weight of 60 kg (pre-pregnant weight) a hemoglobin level 9.5 gm/dL:

Total iron deficit = $60 \times (11.0-9.5) \times 2.4 + 500 = 716$ mg

Simplified method:

A total dose of 200 mg of iron sucrose (10 ml of Iron Sucrose) can be infused at a time

Total iron sucrose dose calculation sheet

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* If the pregnant women weighs less than 40 kg, weight category of 40 kg should be considered in the chart.

This table can be used as a guide for Iron Sucrose dose calculation. However, it is advisable to use Ganzoni's formula to calculate the intravenous iron sucrose dose for each pregnant women

Illustration: A pregnant woman with 28 weeks of gestational age weighs 36 kg and if her hemoglobin is 8.3 gm/dL, she will be requiring in total 700 mg doses of iron sucrose (according to the table on page 41). She has to be given a total of 700 mg (three 10 ml iron sucrose vials with 200 mg iron in each, plus half a dose in the 4th vial of iron sucrose (5 ml) for 100 mg of iron) of iron sucrose in four different visits (one 200 mg of iron sucrose at each visit in first week and 100 mg iron in the last visit during the second week). She has to make four visits. In each visit, 200 mg iron sucrose has to be transfused and at last visit, 100 mg is to be transfused. The flow diagram below depicts the administration of iron dose to pregnant women.



Documentation and post-infusion management

Document the dose, date of infusion and side effects (if any) observations in the Antenatal clinic (ANC) record and Mother and Child Protection Card (MCPC) of the pregnant woman. The pregnant woman should be observed for 1 hour after infusion and can be discharged on the same day if all vitals are stable.

Follow-up of after iron sucrose administration

The hemoglobin level of the pregnant woman should be checked 4 and 6 weeks after administration of iron sucrose. If there is no change in hemoglobin levels at the end of IV iron sucrose treatment, other causes of anemia should be investigated.



Divide the participants into four groups and distribute the following case studies. Ask the groups to work on the case study and answer the questions give below.

CASE STUDY 1

Sunita is a pregnant woman with 24 weeks of gestational age. She weighs 53 kg and her hemoglobin is 6.3 gm/dL

Questions for discussion:



- 1. What will be the total required doses of 200 mg doses of iron sucrose?
- 2. What will be the dosage schedule?
- 3. How many visits will she require for the treatment?

CASE STUDY 2

Rukhsana is having 32 weeks of gestational age. She weighs 39 kg and her hemoglobin is 5.9gm/dL

Questions for discussion:



- 2. What will be the dosage schedule?
- 3. How many visits will she require for the treatment?

CASE STUDY 3

Sarita is a pregnant woman with 24 weeks of gestational age. She weighs 68 kg and her hemoglobin is 5.6 gm/dL

Questions for discussion:



1. What will be the total required doses of 200 mg doses of iron sucrose?

1. What will be the total required doses of 200 mg doses of iron sucrose?

- 2. What will be the dosage schedule?
- 3. How many visits will she require for the treatment?

CASE STUDY 4

Vanita is a pregnant woman with 29 weeks of gestational age. She weighs 49 kg and her hemoglobin is 8.4 gm/dL

Questions for discussion:



- 1. What will be the total required doses of 200 mg doses of iron sucrose?
- 2. What will be the dosage schedule?
- 3. How many visits will she require for the treatment?

CASE STUDY 5

Zameela is pregnant with 35 weeks of gestational age. She weighs 69 kg and her hemoglobin is 7.6 gm/dL

Questions for discussion:



- 1. What will be the total required doses of 200 mg doses of iron sucrose?
- 2. What will be the dosage schedule?
- 3. How many visits will she require for the treatment?

CASE STUDY 6

Anita is a pregnant woman with 36 weeks of gestational age. She weighs 57 kg and her hemoglobin is 9.2 gm/dL

Questions for discussion:



- 1. What will be the total required doses of 200 mg doses of iron sucrose?
- 2. What will be the dosage schedule?
- 3. How many visits will she require for the treatment?
- Step 4: Ask the groups to present their work. Answer questions, if any.
- Step 5: Conclude the activity by summarizing that parenteral therapy in pregnancy is done by using intravenous iron sucrose. The dose is calculated using Ganzoni's formula and the treatment has to be spread over two weeks, giving 3-4 doses of 200 mg iron sucrose per week.



Points to remember:

- Mild and moderate anemia can be effectively treated by oral iron folic acid therapy in all age groups and pregnancy in recommended doses.
- After the hemoglobin levels come to normal, prophylactic IFA dose should be provided along with counselling.
- All cases with no improvement in Hb level after oral iron folic acid therapy for recommended duration, should be referred to FRU/ district hospital.
- Parenteral iron therapy for anemia is done using Intra-venous Iron Sucrose (IVIS).
- ☑ Intra-venous Iron Sucrose (IVIS) is considered as the first line of management in individuals with severe anemia (Hb 6.9 to 5.0 gm/dL) between 13-34 weeks of gestational age.
- ☑ Iron sucrose is contraindicated in patients with evidence of iron-over load, known hypersensitivity to iron preparation or any of its components or non-iron deficiency anemia.
- ☑ During pregnancy, Intra-venous Iron Sucrose (IVIS) may be considered in moderate anemia where, diagnosis of anemia in late stages of pregnancy, no tolerance to oral iron, no improvement in hemoglobin level (Hb level <1gm/dL) after one month of oral IFA treatment, noncompliance for oral IFA tablets and also for anemia in postpartum period.
- ☑ The dose of iron sucrose is calculated with Ganzoni's formula.
- ☑ The treatment has to be spread over 2-3 weeks, with 3 doses per week.
- ☑ The pregnant woman should be observed for 1 hour after infusion for any side effects.
- ☑ The hemoglobin level of the pregnant woman should be checked 4 and 6 weeks after administration of iron sucrose.

TALK ANEMIA: SOCIAL & BEHAVIOUR CHANGE COMMUNICATION ON SOLID BODY, SMART MIND CAMPAIGN FOR SERVICE PROVIDERS & FIELD FUNCTIONARIES



TALK ANEMIA

Session 1: Understanding the Behaviour Change Process

- Part I: Telling a story using the story cards
- Part II: Presenting the first chart depicting the seven steps in behaviour change
- Part III: Sharing of personal experiences in changing behaviour by participants
- Part IV: Presentations from groups and discussion

Session 2: Communication Activities and How to Use AMB Communication Materials for IPC and Dialogue with Clients



Duration: 2 hours



Learning Objectives:

After the session, the participants will be able to:

- Understand different steps in behaviour change process
- Understand the importance of effective communication for behaviour change.



Focus will be on:

- 1. Increase in knowledge on anemia
- 2. Increase in risk perception of anemia
- 3. Increase in motivation and self-efficacy for required behaviours to prevent/ treat anemia
- 4. Increase social support for anemia management.



Methodology:

Case study, discussion (examples and case studies around the three behaviours for target groups for AMB: Children 6-59 months, Children 5-9 years, Adolescent Girls 15-19 years, Adolescent Boys 15-19 years, Women of Reproductive Age (WRA), Pregnant Women, Lactating Women)

The session is divided into four parts

- Part I: Telling a story using the story cards
- Part II: Presenting the first chart depicting the seven steps in the behaviour change process
- Part III: Sharing of personal experiences in behaviour change first in groups; then each group shares one experience narrated in the group with the other groups in the plenary sessions
- Part IV: Presenting the full chart and discussing each step in the behaviour change process Focusing on the chance that a person may drop out at any stage of the change process



Materials Required:

- Story cards
- Blackboard and chalk or chart paper and sketch pens

Part I: Telling a story using the story cards

Using the story cards narrate the following story: Shanta's Story



Duration: 30 minutes



Story card 1: Poonam, the ASHA of Rampur Sub Health Centre (SC), was concerned that a large number of women and adolescents in the block were anemic and many infants were malnourished. She always took the opportunity to motivate them whenever they visited the SC. She ensured that she explained the importance of taking IFA tablets regularly and talking to them about the importance of having an iron rich diet. She also supported other ASHAs in her area to motivate pregnant and lactating women and their families to ensure that IFA tablets are taken as prescribed.



Story card 2: Shanta, who was about to enter the fourth month of her pregnancy had come to the PHC from a nearby village for her first antenatal check-up. Her husband also accompanied her. After registering the pregnancy and conducting all the necessary check-ups, Pooja the ANM at the PHC explained the need for and benefits of taking one IFA tablet – the red tablet – daily for the next 180 days (six months). Shanta said that she understood the benefits of taking IFA tablets regularly but told Poonam that her family, especially her mother-inlaw, did not trust IFA tablets. Her sister-in-law who had consumed IFA tablets during her pregnancy used to complain of nausea and also passed black coloured stools. She had therefore, discontinued taking IFA tablets. Also, both her mother and her mother-in-law believed that taking IFA tablets may result in the baby developing a dark complexion



Story card 3: In a friendly and caring manner, Pooja explained to Shanta that taking IFA tablets regularly was very important to ensure the good health of the mother as well as the baby in the womb. She gave her a strip of IFA tablets and also explained the need to take an iron-rich diet such as green leafy vegetables, whole grains and pulses, nuts and oilseeds along with meat, eggs, liver and fish (if the family consumes non-vegetarian food). She further explained that including vitamin C-rich foods such as lemons, tomatoes, guavas, oranges, amlas and sprouts help in absorption of iron in the body. She cheerfully explained that the benefits of taking IFA tablets were far greater than the few discomforts that one might face initially after consuming the tablets. Shanta assured Pooja that she would try to convince her mother-in-law to let her take the IFA tablets.



Story card 4: About two weeks later, Pooja visited Shanta's village as part of the routine supportive supervision provided to ASHAs. During her conversation with Poonam, the village ASHA, about the status of pregnant women in the village, she remembered to check about Shanta. Poonam reported that she had visited Shanta and motivated her to start taking one IFA tablet everyday, preferably at the same time without fail. She also told Pooja that although Shanta was keen to start, she had been hesitant to take IFA tablets and that her visit to Shanta's place and explanation to Shanta's mother-in-law of the benefits of taking IFA tablets had helped Shanta to start taking them. Pooja decided to visit Shanta's house along with Poonam.



Story card 5: After exchanging pleasantries with Shanta's mother-in-law, Pooja and Poonam enquired about Shanta. She complained that Shanta experienced headaches and nausea after she started taking IFA tablets and that she did not want her grandchild to face any problems due to the mother's condition. She told Pooja and Poonam that Shanta had stopped taking IFA tablets now. While they were talking, Shanta came in offering water to both. She looked very pale and tired.



Story card 6: Together, Pooja and Poonam explained the benefits of IFA tablets once again and the grave dangers that it protected both mother and child from. They gave examples of their own pregnancies and how they had faced the same problems while taking IFA tablets and that after some time they had become used to them. The side effects of the tablets also reduced in some time. Poonam was carrying a set of dialogue cards that she used effectively to explain why taking IFA tablets regularly along with an iron and vitamin C-rich diet (which includes dark green leafy vegetables, locally produced fruits and vegetables like pumpkin, papaya, orange, lemon and guavas) was very important for the health of the mother and the baby.



Story card 7: Thereafter, Pooja and Poonam decided to meet Shanta's husband Ramlal who ran a small grocery shop nearby. They went to meet him with the village Pradhan whose daughter-in-law had recently delivered a healthy baby in the PHC. They patiently explained all the benefits of regular IFA tablet consumption to Shanta's husband and requested him to ensure Shanta took the tablets regularly. They also explained that an anemic person may feel lethargic, experience breathlessness, giddiness or weakness and get tired easily. The village Pradhan helped in motivating Shanta's husband by narrating how his daughter-in-law and the newborn were both healthy because they had followed all the advice given by the ASHA and ANM didis. Poonam also requested Ramlal to bring Shanta to the PHC for her next ANC check-up which was due after two months.



Story card 8: During the next visit, both Ramlal and his mother accompanied Shanta to the PHC where along with other check-ups, Pooja also checked Shanta's haemoglobin levels. The results were satisfactory. This was a result of Shanta taking her daily dose of IFA tablets without fail. Now her family also supported her in ensuring she took an iron-rich diet along with daily IFA supplementation.



Story card 9: Shanta delivered a healthy child at the PHC after a few months. All the steps related to healthy delivery such as delayed cord clamping and early initiation of breastfeeding were ensured by the medical team attending to Shanta. Pooja, as a capable team member, counselled Shanta and her family members on continuing consumption of IFA tablets for another 180 days (six months) as it is equally important for lactating mothers to take IFA tablets as it is for pregnant women. Not only does Shanta take her IFA tablets regularly but she also motivates other pregnant women and lactating mothers in her village to take IFA tablets without fail during pregnancy and lactation.



Once you have completed narrating the story, ask the following questions:

- 1. What did you think of the story? Do you find families like Shanta's who are reluctant to follow your advice?
- 2. How did Pooja handle the case? Did she try to find out the reasons for Shanta's mother-in-law not supporting consumption of IFA tablets? Did Shanta's family accept her advice?
- 3. How did Pooja finally convince the family and win Shanta's support in promoting health care?
- 4. What is it that Pooja could have done better? (Like counselling the family regarding possible side effects of taking IFA tablets)

Allow sufficient time for participants to reflect and share their views on each of the above questions. Keep asking questions to elicit the following:

- During Shanta's first visit to the PHC, Poonam was able to create an 'awareness' as well as a 'desire' in Shanta to start taking IFA tablets. But her mother-in-law influenced Shanta and dissuaded her.
- When Poonam visited Shanta at her home, she was able to convince Shanta and her motherin-law so that Shanta could start taking IFA tablets. Thus, Poonam was able to get Shanta and her mother-in-law to agree to test the 'desired' behaviour change.
- But again, the fact that Shanta felt nauseated and experienced headaches and also that they were not fully convinced about the cause, caused Shanta to discontinue taking IFA tablets.
- Again, Pooja and Poonam influenced and motivated the family by talking to Shanta's motherin-law and taking the village Sarpanch to meet Ramlal, Shanta's husband and convince him. They were successful in convincing the family to get Shanta to start taking IFA tablets daily.
- In this manner, the family realized that it was good to take IFA tablets daily and to follow the advice of the ASHA and ANM. Shanta continued to take IFA tablets daily and started availing other services, thereby 'sustaining' the behaviour change.
- Finally, Shanta also starting 'advocating' for both pregnant women and lactating mothers to take IFA tablets regularly.

Part II: Presenting the first chart depicting the seven steps in behaviour change



Duration: 30 minutes

Leading from the discussions on Shanta's story in Part I, initiate discussion on the behaviour change process.



Step 1 in the change process is to become **AWARE** of the change that needs to take place. Write 'Aware' on the board and discuss how Shanta became aware about the fact that taking IFA tablets is beneficial for all women. This awareness could come from a neighbour, a relative or a friend or through the ASHA/AWW or any other functionary (using IEC materials such as dialogue cards, pamphlet or recipe book etc.). It could also be through the media newspaper, radio or TV.

Once the same message is heard several times (e.g. every woman and girl should take IFA tablets regularly, every child should be immunised, every child should be in school, institutional deliveries are safest for mother and child, etc.), one develops a **DESIRE** to test the change. This is **Step 2** of the change process. Write 'Desire' on the board as shown in the chart and draw an arrow indicating that awareness leads to a desire for change.

Now that one desires the change, one will look at ways to make the change and this could be acquiring a new **SKILL** (as in the case of the skill to breastfeed a baby the right way) or **KNOWLEDGE** (as in the case of finding out when and where one's child can be immunized or when an IFA tablet should be taken).

An enabling environment consists of:

- Supportive family, relatives and neighbours.
- Functionaries and volunteers and other opinion leaders through their sustained encouragement, through counselling and dialogue and provision of quality services.
- The media through repeated supportive messaging in jingles, spots, hoardings and wall paintings.

Therefore, **Step 3** is acquiring the necessary skill or knowledge to make the behaviour change. Write 'Knowledge' (in Shanta's case the knowledge was where to get IFA tablets as well as knowing that it had to be taken every day) or 'Skill' (as in the case of being able to breastfeed a child the right way) on the board as shown in the chart and draw an arrow to indicate that desire leads to acquiring the necessary knowledge and/or skill to make that change.

Now that one has acquired the knowledge and/or the skill, **Step 4** will be to **TRY OUT** that change (e.g. starting to consume IFA tablets as advised by the ASHA or AWW). Write 'Try out' on the board as shown in the chart and discuss this as the fourth step in the change process. Individuals analyse the experience of trying out the change behaviour and if the assessment is negative (as in Shanta's case), the person drops out from the process.

If it is positive, the tendency is to try it out once again. In other words, **REPEAT** the action. This is **Step 5** of the cycle. Write 'Repeat' on the board as shown in the diagram and discuss the same with the participants.

If it is negative, like black stools or nausea after taking iron tablets, chances of falling back are high. At this time, the person requires support, solutions, explanations and motivation from the functionary or family to try again and repeat the action.

If the experience of Step 5 was good, one will tend to repeat the action; in other words, **MAINTAIN** (Step 6) the behaviour and soon it becomes a **SUSTAINED** (Step 7) behaviour change or a habit. Write 'Maintain' and 'Sustain' on the board as in the chart with the arrows linking them and discuss these steps with the participants.

The behaviour change process is thus completed.

Part III: Sharing of personal experiences in changing behaviour by participants



Duration: 30 minutes

Divide the participants into groups of six or seven members each. Request each participant to share any one of their personal experiences in changing a health or nutrition related behaviour (encourage them to share any experiences related to adopting behaviours that cure anemia) or acquiring a new behaviour with the other members of their group. Request participants to share their experiences keeping in mind the steps discussed and listed in Part II.

Part IV: Presentations from groups and discussion



Once each member in the group has shared her/his experience, ask each group to select one of the experiences shared within the group and share it with the other groups. One member from the group has to present the experience.

One member of each group presents one of the experiences from her/his group. They are given five minutes each. Group members should be requested to supplement the presentation by their groups.



Once you have completed narrating the story, ask the following questions:

- 1. Whether they were aware of the different steps of the change process discussed in Part II while they underwent the change.
- 2. Whether any member had tried a changed behaviour and given up at any stage of the process. Allow sufficient time to elicit the fact that people drop out and give up. Discuss what the reasons could be for giving up.
- 3. Whether there was someone motivating them or inspiring them to go ahead with each step of the change process.

Summarize participants' experiences in terms of the role played by them at each stage of the change process. This will help them understand how there is a definite role to play at each step.

Give sufficient time for participants to discuss each question and highlight the key points arising from the discussions.

Show the earlier diagram of the change process and explain/discuss their role at each step.

Concluding the Session

Using the diagram that was drawn in Part II of the session and the discussions from Part III, complete the chart indicating that at any step of the cycle one could drop out from the change process, unless there is someone motivating and 'facilitating' the person to make that particular change.

This is where the Medical Officer (MO)/Staff Nurse/ANM or any other worker should monitor and support the individual to carry on with the change process. We know of many cases where women and adolescent girls drop out after taking IFA tablets for the first few days. If we are to prevent such dropouts, we need to follow up with each family 'at risk' of anemia and support them in understanding the need for the changed behaviour. Therefore, it is critical that an **ENABLING ENVIRONMENT** is created and sustained to help individuals, families and communities make the desired change. An enabling environment would consist of the following:



Supportive relatives and neighbours.

Functionaries and volunteers and other opinion leaders through their sustained encouragement through counselling and dialoguing and provision of quality

services.

3

The media (press, radio, TV etc.) through supportive messaging.

In conclusion, ask the participants how they found the entire session. Ask them what the major learning outcomes were and whether they were able to relate to the behaviour change process. Tell them that we will be building on the concept further and working on behaviour change.



Tips for the Facilitator

Emphasize that the communicator plays an important role at every step of the change process.

In the case of Shanta, the ANM Poonam had first discussed the issue with Shanta at the PHC. When this did not work, she went to her house and spoke to her husband and her mother-inlaw and convinced them about the importance of taking IFA tablet. When the child missed the second dose, she brought the Sarpanch and two of Ramlai's friends and convinced the family.

Thus, at each stage, we have to be very conscious that the individual or family could drop out and therefore we need to monitor them and ensure that we continue with our efforts to bring about behaviour change with supportive strategies.

Anemia Prevention in Children, Adolescent Girls and Women – Diet, IFA, Deworming



Behaviour	Key messages
Every child 6–59 months receives biweekly iron folic acid syrup	 Anemia is a serious condition and anemic children will become tired, weak and have difficulty studying and doing well in school. Anemia results from a deficiency of iron in the blood.
Children 12–59months receive bi-annual deworming (¹ / ₂ tablet to children 12–24 months and 1 tablet to children 24–59 months	 Children should eat a variety of foods that include green leafy vegetables, proteins and vitamins and consume IFA supplementation every week to protect against anemia
Every child 5–9 years is protected against anemia with adequate diet diversity,	 Intestinal worms can cause anaemia. Every child should be given deworming tablets twice a year
weekly pink iron folic acid supplements and twice yearly deworming	 Caregivers should ensure screening of girls and boys for anemia and seek for treatment as required
Every adolescent (10–19 years) is protected against anemia with adequate diet diversity, weekly blue iron and folic	 Without adequate iron in the blood, adolescent girls and boys become anaemic and experience tiredness, weakness, lack of appetite and lack of interest in studies
acid supplementation, twice yearly deworming	• To protect against this, adolescents should eat foods rich in iron and Vitamin C in a diverse diet.
	 Adolescents should take weekly iron supplementation and six monthly deworming tablets
	 Caregivers should screen girls and boys if they are anemic and then begin treatment
Every pregnant woman and lactating mother has an adequately diverse diet,	 Anemia is a serious condition and can lead to premature birth, low birth weight babies and even maternal death
takes iron and folic acid supplements daily, takes calcium, deworming and iodized salt	 Growth of the child (mental and physical) starts in pregnancy, hence prevent anemia in pregnancy
	 Pregnant women need more iron. Ensure you consume the IFA tablets daily during pregnancy and for at least six months while your baby is exclusively getting nutrition from you through breastfeeding.
	 Pregnant and lactating mothers: take deworming tablets to help prevent anemia
Every pregnant woman and lactating mother has access to family planning services	 Pregnant and lactating mothers need information and regular, easy supplies of family planning methods to delay the next pregnancy so they can recover from the previous birth
Every child is protected from malaria	Malaria causes anemia, which impairs growth and development
through the use of bednets	To prevent malaria, children must sleep under a mosquito net
	 In malaria endemic areas, all family members must sleep under a mosquito net

Session 2: Communication Activities and How to Use AMB Communication Materials for IPC and Dialogue with Clients



Duration: 1 hour



Learning Objectives:

At the end of the session, participants will be able to:

Plan for communication activities, understand and practice their skills of using the AMB communication package consisting of the following materials for IPC and dialogue with clients:

- 1. Set of posters
- 2. Dialogue cards
- 3. Pamphlet
- 4. Recipe booklet
- 5. Playing cards
 6. 4 Mantra booklet
- 7. TVCs Thakaan Mail, Toofan Mail
- 8. Radio spots Thakaan Mail, Toofan Mail



Methodology:

Demonstration and mock sessions



Materials Required:

- Set of posters, dialogue cards, pamphlet, recipe booklet, playing cards, 4 Mantras booklets for adolescents, TVCs, radio spots
- Handout 2: How to Use AMB Communication Material



Process:

- 1. Demonstrate how to use the materials and also share the handout on how to use the materials. Answer any questions that the participants may have.
- 2. Then ask 2-3 volunteers to conduct a mock session for using each material.

Share the handout on how to use the materials and ask participants to read it. This will take about 15 to 20 minutes. Answer any questions that the participants may have. Prepare a checklist of how these materials can be used on a flip chart.

Handout 2: How to Use AMB Communication Materials

.....HOW TO USE **DIALOGUE CARDS** Audience: Adolescent Girls, Pregnant and Lactating Women, WRA, Husbands, Fathers, Mother-in-law • Position the dialogue cards in such a place that a small group can see it. Or, circulate the cards around the group. Point to the pictures and not to the written content. Face the audience (for group talks). Move around the room with the dialogue cards if the whole group cannot see them at one time. Try to involve the group. Ask the audience questions about the . illustrations to check their understanding. If the dialogue card has text, use it as a guide but familiarize yourself with the content beforehand so that you are not dependent on the text. The dialogue cards 1-13 are common for all target audiences and can be shown to all of them. Dialogue card 14 is for children between 6-59 months, dialogue card 15 is for children between 5-9 years, dialogue card 16 is for adolescents between 10-19 years, dialogue card 17 is for WRA, dialogue card 18 is for pregnant women, and dialogue card

..... HOW TO USE

their caregivers, as appropriate.

BOOKLET

19 is for breastfeeding mothers and can be shown specifically to those target audiences or

Audience: Adolescents and Parents

Booklets, like the 4 Mantra booklet for adolescents are designed to reinforce or support information given verbally by the functionary. If used properly, they will strengthen the messages that you give to adolescents.

The following are suggestions on how to use booklets (this material can primarily be used by AFHC counsellors):

- Go through each page of the booklet with the adolescent. . This will give you a chance to show and tell about a problem or practice and answer any questions that the adolescent has.
- Point to the pictures and not the text. This will help the adolescent to remember what the illustrations represent.
- Assess the adolescent's reactions. If s/he looks puzzled or worried, then discuss the worries or ask questions. Discussions will help establish a good relationship and build trust between you and the adolescent. A person who has confidence in her/his health service provider will often transfer that confidence to the method or health practice selected.
- Give the booklet to the adolescent. Suggest that s/he share it with others, even if the adolescent makes a decision not to adopt the health practice described.





..... HOW TO USE

PLAYING CARDS

अलबेला आम

PAMPHLET

Audience: Literate & Semi-literate Community Members, Adolescents, School Children

Before you begin the game, read the instructions provided on the box of the playing cards carefully and then conduct the session. The cards can be played with different audiences that are literate and semi-literate. Mix all the cards and distribute them in the audience. All the participants should have an equal number of cards. Then, conduct the session as per the instructions provided on the box.

--- HOW TO USE BOOKLET ON HOME-AUGMENTED IRON RICH SNACKS/RECIPES

Audience: SHG Women, Literate & Semi-literate WRA

The recipe booklet provides information on the various iron-rich recipes that can be prepared such as poha, barfi, laddoos, chaat etc. using locally available ingredients such as spinach, bajra, soya flour, peanuts, jaggery etc. You can share the recipes with women who visit the health facility and engage them in conversations about their cooking preferences. You can inform them that these recipes are easy and the meals are tasty and can be enjoyed by the entire family. You can discuss recipes they like from the booklet and also give them a copy for their own reference.



खेल के निर्देश

हर खिलाडी अपने काठों को इस तरह पकड़े कि उसे सिर्फ

गुरू करने के लिए एक खिलाड़ी अपनी गड्डी के ऊपर के कार्ड को पलट कर उसमें लिखे किसी भी जैसे – ऊर्जा या आयरन के मूल्य को पढ़े। बाकी

बसे ऊपर के का मूल्य पढ़ें।

कों जिनके जि

सभी काठों को अच्छे से मिलाएँ और फिर बौटें।
 सभी किलाडियों के पास कार्ड बराबर बैंटे होने चाहिए।

गर्ड दिखाई दे।

ाड़ी भी अपनी गढ्ढी के सबसे कर उसमें लिखे उसी तत्व का

हर बारी का विजेता अगली बारी में पहले 3

का काई पलट क

 लिस खिलाड़ी के पास सभी कार्ड आ जाएँगे का विजेता होगा/होगी।

जिस खिलाड़ी के कार्ड का म बाकी खिलाड़ियों के खुले कार्ड

का मूल्य पढ़ेगा/पढ़ेगी। के सबसे ऊपर के कार्ड

तत्व का मुल्य पढेंगे।

वेल शुक्त

सबसे ऊप तत्व, जैसे

लेगा।

.....HOW TO USE

Audience: Literate Persons

The pamphlet can be distributed to community members who visit the facility for them to read at their own pace. The pamphlet provides a detailed description of the causes, signs and symptoms of anemia, its prevention and control and do's and don'ts. It can be used effectively as an IEC material for people who can read. It can be distributed among community members during PMSMA events and immunization events. It can also be given during home visits after reminding about the information given during a session.



..... HOW TO USE

Audience: Literate Persons

The pamphlet can be distributed among clients for individuals to read at their own pace. The pamphlet provides a detailed description of the tips for each target audience regarding diet and IFA intake. It can be used effectively as an IEC material for people who can read. It can be distributed among clients during meetings, festivals and events. It can also be given during home visits after

reminding about the information given during a session.

..... HOW TO USE

Audience: Literate Persons

There are two kinds of posters:

- Posters to inform and trigger behaviour (AMB posters for different levels of audiences - like caregivers, WRA, pregnant women, lactating women and adolescents)
- Posters to educate (Do's and don'ts poster)
- Display posters in places of high visibility in the facility such as in corridors, outside and in the maternity ward, outside and in Adolescent Friendly Health Clinics (AFHCs), at the medical store etc. Think about what the poster is meant to do and what community members will see.
- You also can use posters to initiate a discussion with target audiences.
- Ask the target audience what they see and what it means to them. If correct, reinforce their understanding positively. If incorrect, improve their understanding in a polite and patient way.

TVC AND RADIO SPOTS

..... HOW TO USE

Audience: Everyone

A series of TVCs and radio spots have been developed for different target audiences as part of the Anemia Mukt Bharat strategy. One such TVC and radio spot is the Thakaan mail, Toofan mail targeted towards adolescents. All the TVCs and radio spots can be downloaded

from the Anemia Mukt Bharat website in the following link and relevant TVCs and radio spots can be shown to specific target audiences by facility staff on their smartphones:

LEAFLET

POSTERS









Concluding the Session

The greatest advantage of using communication materials is that they help you in keeping your discussions focused on the topic. The conversation remains on target and brief which is the hallmark of good communication.



Tips for the Facilitator

- This session highlights the importance of using communication aids and aims to help participants to assess their own knowledge of the communication tools that they can use.
- The handout should be shared with participants and the questions raised by them, if any, after going through it can be answered. However, the main purpose of the session is for them to practice the use of the communication materials and the organisation of the sessions. Also help them in generating a checklist for correct usage of materials, which will reinforce learning from the handout.

SUPPLY CHAIN MODULE FOR PROGRAMME MANAGERS AND SERVICE PROVIDERS



Section 1: Public Health Supply Chain Management

Section 2: IFA Supply Chain process and action plan

Section 3: Roles and Responsibilities of State-District-Block Team

Background

Anemia is widespread across most age groups and across all states in the country. As per NFHS-4, every second person in the continuum of care (children-adolescents-women of reproductive agepregnant and lactating women) in the country is anemic. Emerging experience from the field shows that inadequate infrastructure, lack of training of personnel, issues in procurement and distribution of Iron and Folic Acid (IFA), irregular and random supplies to pharmacies at the district and block level and lack of reliable data on distribution and consumption are major hindrances in the entire ecosystem of IFA service delivery.

The Anemia Mukt Bharat (AMB) strategy plans to build upon the learning of implementing the National Iron Plus Initiative (NIPI) and Weekly Iron Folic Acid Supplementation (WIFS) programmes. The strategic 6x6x6 intervention proposed under AMB focuses on ensuring services to six target beneficiaries on six interventions via six institutional mechanisms. One of the key institutional mechanisms under the strategy is to strengthen the procurement and supply chain mechanisms.



450 million beneficiaries – nearly **50% of the country's** population will be reached

Rationale

Many of the districts in the country are experiencing chronic shortages in IFA supplies in the last few years. Random distribution of IFA as per availability at the State level, erratic reporting, irregular stock audits, centralized forecast and estimation of supplies, poor knowledge on practice of indents and floating demands have led to an increase in the existing demand-supply gap for IFA.

To ensure seamless (upstream and downstream) delivery of IFA at the state level, bottlenecks in IFA procurement, deliveries, quality control, storage, disposal and distribution have to be addressed and a robust system of documentation, monitoring and training of personnel has to be established across key stakeholders [(Ministry of Health and Family Welfare (MoHFW), Ministry of Human Resource Development (MHRD) and Ministry of Women and Child Development (MWCD)] via effective intra and inter-ministerial convergence.

IFA Supply Chain Management Manual for Programme Managers and Service Providers is aimed at empowering users to adopt innovative strategies to establish and/or strengthen the existing supply chain management system at the States. It attempts to inform stakeholders about the strategic approach and types of investments needed to move from one stage to the next with the ultimate aim to integrate the existing supply chain management system under the AMB strategy.

Purpose of the manual

The manual is developed for AMB Programme Managers: State, District and Block levels, Drug Store/ Warehouse Managers and Store Supervisors under Health, Education and ICDS. Pharmacists: District, Block and PHC levels, and Partners involved in defining strategies for strengthening supply chain management activities under the AMB programme.



Overall learning objectives:

- To understand the pillars and process for effective supply chain management
- To understand the organizational structure and roles and responsibility of personnel involved in the supply chain management process
- To strengthen the information management system as an integral process in the entire supply chain management system
- To evolve from the system based on assumptions and speculations, to an informed, responsive and effective supplies and logistics management system



Methodology adopted:

- Power point presentations
- Discussion
- Calculation simulation
- Practice exercise



Resources needed (for imparting training):

- Laptop, projector, screen
- Charts, marker pens, writing board

Sections:

This manual is divided in three sections:

- 1. Public Health Supply Chain Management and Supply Chain Evolution Model
- 2. IFA Supply Chain Process and action plan
- 3. Roles and Responsibilities of State-District-Block Teams in IFA Supply Chain Management

Duration: 2 hours



Key focus of the section:

- To understand processes and people involved in the supply chain management process.
- To understand importance of establishing a chain of events before initiating the supply chain process.
- To evolve from the state of an assumption and speculation based system to a more organized and integrated system of supply chain management.



Duration of the training: 45 mins

Learning objectives:

By the end of the session, the participants should be able to:

- Understand the various processes and players involved in the supply chain management network
- Assess the status of existing supply chain management and identify ways and measures to strengthen it
- Identify ways to increase coordination between stakeholders at every level to ensure timely and adequate supply of IFA to health facilities.



Methodology adopted:

• PowerPoint presentations



Materials Required:

• Projector, laptop, screen

What is a public health supply chain?

A public health supply chain is a network of interconnected organizations, people and processes that ensures the availability of health commodities to the people who need them

- Public health supply chain management involves:
- Departments and Ministry of Health and Family Welfare (programmes, planning, procurement, drug regulatory boards, human resources, and health programmes) and allied ministries
- Central Medical Service Society, State Medical and Infrastructure Corporations
- State, Regional and District warehouses
- Health facilities, Anganwadi Centers (AWCs) and schools (Service Delivery Points) and Community health workers
- Private sector partners, such as third-party logistics providers, drug manufacturers, transport and distributors etc.



Fig 2: Pillars of Effective Supply Chain Management

Effective supply chain management structure

SUPPLY

IFA available at health facilities, schools, AWCs		Regional Warehouses are sufficiently supplied	State/Central Warehouses are adequately procured	Selection of manufacturers and suppliers and quantification of products by programme managers and policy makers								
DEMAND												
Health Facilities, Schools, AWCs		Regional Drug Store	State/Central Drug Store	Suppliers and Manufacturers								

Characteristic of integrated SCM

Clarity of roles and responsibilities, agility, streamlined process, visibility of information, trust and collaboration, alignment of objectives, robust technology support



- ✓ It is critical to ascertain the various players (departments and personnel) and processes involved in the supply chain management system to ensure timely procurement and last mile delivery of supplies
- ☑ To strengthen the existing supply chain management system, identify gaps in planning based on process and structure mentioned above
- Capacity building of the key human resource at every level along with vigilant monitoring and reporting of activities (e-Aushadhi/DVDMS) remains main stay to strengthen linkage and ensure transparency.



Key focus of the section:

- To understand the flow of information/products at each level of the programme management unit
- Focus on timeliness of activities and processes to be done in conjunction with allied Departments/Ministries.
- To understand the steps involved in the entire chain of events to ensure IFA supplementation till the last mile
- To develop an effective logistic and supply chain action plan and implement the same.



Duration of the training: 1.5 hours



Learning objectives:

By the end of the session, the participants should be able to:

- Assess the status of existing supply chain management and identify ways and measures to strengthen it
- Identify ways to increase coordination between stakeholders at every level to ensure timely and adequate supply of IFA to health facilities.



Methodology adopted:

- PowerPoint presentations
- Calculation practice



Resources needed (for imparting training):

- Projector, laptop, screen
- Charts, marker pen, pens, writing board

STATE-DISTRICT-BLOCK ACTION PLAN FOR IFA SUPPLY CHAIN MANAGEMENT

Supply chain management: Organogram

In order to understand the gaps and to address issues in the existing IFA supply chain management, it is imperative to define the internal structure and units involved to ascertain the relationship amongst various departments, levels, teams as well as individuals. Setting up a Supply Chain Management organogram will help improve visibility across the chain of events, define the line of command, flow of authority and information from top to bottom and otherwise.

Fig 4:Flow chart depicting the IFA supply chain management process and programme unit involved



Dash lines: Supply of IFA into the system | **Solid lines:** Flow of information and supplies | **Boxes:** Concerned stakeholders at each level | **PHC:** Primary Health Centre | **VHND:** Village Health and Nutrition Day | **AWC:** Anganwadi Centre | **ICDS:** Integrated Child Development Services | **ANM:** Auxiliary Nurse Midwife | **AWW:** Anganwadi Worker
Plan to ensure regular supply of IFA

Defining the roles and responsibility of the programme management unit at each level will help in streamlining the process to estimate requirement, timely procurement and adequate distribution of the product till the last mile. Timely and accurate reporting of stocks and coverage from the Sub Centre till the district level will further aid in estimating requirements and will also help in effective management of the inventory.



IFA SUPPLY CHAIN PROCESS

Step 1: Planning and forecasting

The process of calculating target beneficiaries and forecasting supplies for the target population may be made more participatory and inclusive by involving the district in calculating target beneficiaries and involving the block in estimating the requirement of drugs based on population and coverage.



Objective: To identify missed opportunities and ensure increased supply and coverage of IFA (Red, Pink, Blue and Syrup) for all age groups under AMB via Sub Centres, AWCs and schools.

Children (6-59 months)	Who: Nodal Officer – Child Health Where: State and District level How: As per Census 2011 estimations Data Compilation: District \rightarrow State
Children (5-10 years)	Who: Nodal Officer – Child Health Where: State and District level How: As per Census 2011 estimations Data Compilation: District \rightarrow State
Adolescents (10-19 years) (in school and out of school)	 Who: Nodal Officer – Adolescent Health Where: State and District level How: In school: Number of 10-19 year old enrolled in government and government aided schools Out of school: Number of 10-19 year old registered at AWCs under ICDS Data Compilation: District → State
Pregnant and lactating women	Pregnant women: Annual State and District PIP estimations Lactating women: HMIS report – Live births
Newlywed women and WRA	 Who: Nodal Officer – Family Planning Where: Block and Sub Center level How: Number of eligible couples registered under Mission Parivar Vikas Yojna* Data Compilation: Block→District→State

Estimating the target population (denominators) is as follows:

*= States opting for 100% population of WRA may specify the annual target for deciding on WRA denominator for AMB Dashboard



Indent (at the State and district level)

The process of indent differs between districts and blocks. To streamline the process following actions should be ensured.



*= Stock available in hand (from the previous cycle) at the time of estimating supplies for next procurement cycle

#= Stock expected to reach the warehouse from the supplier before the start of next procurement cycle.

Objective: To ensure that at every level of service delivery, an indent plan for IFA Red (pregnant, lactating women and WRA group – Mission Parivar Vikas) and Albendazole for pregnant women, IFA syrup for children aged 6-59 months, IFA Pink for children aged 5-9 years, IFA Blue for adolescents aged 10-19 years are available around the year.

S. No.	Target Beneficiary	Calculation of Indent (for 100 percent target population)	Flow of Information	Verification of Information by	Source of Information
1.	Children aged 6-59 months	Estimated IFA syrup bottle (50 ml each) supply = 2 x number of children aged 6-59 months + additional 10% as buffer stock* Actual Indent= Estimated indent- (stock in hand + pipeline stock)	$\begin{array}{l} \text{ASHA} \rightarrow \text{ASHA} \\ \text{SUPERVISOR} \rightarrow \\ \text{BCM \& BPM} \rightarrow \\ \text{DCM\& DPM} \rightarrow \\ \text{STATE NODAL} \\ \text{OFFICER} \end{array}$	ANM at the Sub Centre	Line list from MCTS and ASHA register
2	Children aged 5-9 years	In school Estimated IFA tablet supply = (Number of children aged 5-9 years registered in schools x 52 tablets) + (52 tablets/teacher/ year) + additional 10% as buffer stock* Actual Indent = Estimated indent- (stock in hand + pipeline stock) Out of school Estimated IFA tablet supply = (Number of children aged 5-9 years registered with ICDS x 52 tablets) + (52 tablets/year for each AWW + 52 tablets/year for ASHA) + additional 10% as buffer stock* Actual Indent = Estimated indent- (stock in hand + pipeline stock)	SCHOOL NODAL TEACHER \rightarrow BLOCK RESOURCE CENTRE \rightarrow BCM & BPM \rightarrow DCM & DPM \rightarrow STATE NODAL OFFICER Out of school AWW \rightarrow BLOCK ICDS OFFICER \rightarrow BCM & BPM \rightarrow DCM & DPM \rightarrow STATE NODAL OFFICER	Block and District Resource Centre- MoHRD (UDISE) Block and District ICDS officer- MoWCD	Students' (boys and girls) enrolment register for classes 1-5 Line list at AWC

S.	Target	Calculation of	Flow of	Verification of	Source of
No.	Beneficiary	Indent (for 100	Information	Information	Information
		percent target		by	
		population)			
3	Adolescents aged 10-19 years	In school Estimated IFA tablet supply = (52 x total number of children (both girls and boys) in 10-19 years) + (52 tablets/per teacher/ year) + additional 10 % as buffer stock* Actual Indent = Estimated indent- (stock in hand + pipeline stock) Out of school adolescent girls Estimated IFA tablet supply = (number of adolescent girls registered with ICDS x 52 tablets) + (52 tablets/year for each AWW + 52 tablets/year for ASHA) + additional 10% as buffer stock*	SCHOOLS → BLOCK RESOURCE CENTRE → BCM & BPM → DCM & DPM → STATE NODAL OFFICER Out of school AWW→BLOCK ICDS OFFICER→BCM & BPM→ DCM & DPM→ STATE NODAL OFFICER	Block and District Resource Centre- MoHRD (UDISE) Block and District ICDS officer- MoWCD	Students' (boys and girls) enrolment register for classes 6-12 Line list at AWC
		Actual Indent = Estimated indent- (stock in hand + pipeline stock)			
4	Pregnant women and lactating women	Considering all pregnant women requiring 180 IFA tablets (1 tablet daily) and 50% pregnant women as anemic in India requiring 360 IFA tablets (2 tablets daily) during pregnancy	ANM BPM DPM STATE NODAL OFFICER	BPM and DPM	HMIS records
		Estimated IFA tablet supply = (half number of PW as per HMIS x 180 tablets) + (half number of PW as per HMIS x 360 tablets) + (number of live birth as per HMIS x 180 tablets) + additional 10% as buffer stock*			
		Actual Indent = Estimated indent- (stock in hand + pipeline stock)			
5	WRA group	Estimated IFA tablet supply = (number of eligible couples registered under Mission Parivar Vikas x 52 tablets) + additional 10% as buffer stock*	$ANM \rightarrow BPM \rightarrow DPM \rightarrow STATE$ NODAL OFFICER	BPM and DPM	Eligible Couple Register at Sub Centre
		Actual Indent = Estimated indent- (stock in hand + pipeline stock)			

FOR INSTANCE: 1. ESTIMATION OF IFA RED AND ALBENDAZOLE FOR PREGNANT AND LACTATING WOMEN

IFA Red

Annually, if there are 10,000 pregnant women registered and 9,000 live births reported under HMIS in a district, the requirement of IFA for pregnant women (considering 50% of them are anemic in the state) and lactating mothers will be as follows:

A – Half number of pregnant women as per HMIS*180 tablets = 5000*180 = 9,00,000

B – Half number of pregnant women as per HMIS*360 tablets = 5000*360 = 18,00,000

C – Number of live births as per HMIS*180 tablets = 9,000*180 = 16,20,000

D - 10 % Buffer stock = (9,00,000 + 18,00,000 + 16,20,000)*0.1 = 4,32,000

Total Requirement = (A + B + C + D) = (9,00,000 + 18,00,000 + 16,20,000 + 4,32,000) = 47,52,000

In case if the state has 10,00,000 stock in hand left and 5,00,000 stock in pipe line. The total final requirement will be

Total Requirement- (stock in hand+ stock in pipe line)= 47, 52,000-(10,00,000+5,00,000)= 32,52,000

Albendazole for pregnant women

A – Number of registered pregnancies as per HMIS = 10,000

B – Number of tablets required = 1 per pregnancy

Total Requirement = A*B = 10,000*1 =10,000

Note: Estimation of number of anemic pregnant women may vary from state to state depending on the anemia prevalence as per NFHS-4

2. ESTIMATION OF IFA BLUE FOR SCHOOL GOING ADOLESCENTS

IFA Blue

Say for an academic year, a district has 10,000 adolescents (10-19 year old girls and boys) registered in school of which 7,000 are boys and 3,000 are girls in the district. The requirement of IFA blue will be as follows:

In school adolescents (girls and boys)

Tablets required for prophylactic dose

A – Number of adolescents in school = 10,000*52= 5,20,000

Tablets required for therapeutic dose

B – Anemic adolescent girls identified in school (estimated to be 50%) to be given therapeutic dose of **two IFA blue tablets once daily for 90 days** (3months)

Therefore, B = 50% of 3,000 = 1,500 = (1,500*2)*90= 2,70,000

C – Anemic adolescent boys identified in school (estimated to be 29%) to be given therapeutic dose of **two IFA blue tablets once daily for 90 days** (3 months)

Therefore, C= 29% of 7,000= 2,030= (2,030*2)*90= 3,65,400

Note: To avoid overestimation, the buffer stock estimate should be adjusted with the total prophylactic dose required (A) as it includes prophylactic dose estimates for anemic adolescents also.

Total requirement= (A+B+C)= 5,20,000+2,70,000+3,65,400= 11,55,400

In case if the state has 2,00,000 stock in hand left and 1,00,000 stock in pipe line. The total final requirement will be

Total Requirement- (stock in hand+ stock in pipe line)= 11,55,400-(2,00,000+1,00,000)= 8,55,400

Note: Estimation of number of anemic adolescent girls and boys may vary from state to state depending on the anemia prevalence as per NFHS-4

3. ESTIMATION OF IFA PINK FOR 5-9 YEAR OLD IN SCHOOL AND OUT OF SCHOOL CHILDREN

IFA Pink

Say for an academic year, a district has 10,000 children (5-9 year old girls and boys) registered in school of which 7,000 are boys, 3,000 are girls and 200 children are out of school. The requirement of IFA blue will be as follows:

In school children, 5-9 years old (girls and boys)

Tablets required for prophylactic dose

A – Number of children in school = (10,000*52) = 5,20,000

Tablets required for therapeutic dose: Anemic 5-9 year old girls and boys identified in school (estimated to be 50%) to be given therapeutic dose of 3 mg iron/kg/day for 2 months.

Note: The average weight of 5-9 year old children ranges from 15-20 kgs. Hence, one tab of 45 mg iron and 400 mcg folic acid can be given **once daily for 60 days** (2 months) as therapeutic dose.

Therefore, **B** = 50% of 10,000 = 5,000 = (5000*1)*60 = **3,00,000**

Total requirement for in school children (C)= A+B = 5, 20,000+3,00,000= 8,20,000

Note: To avoid overestimation, buffer stock estimate should be adjusted with the total prophylactic dose required (A) as it includes prophylactic dose estimates for anemic children also.

Out of school children, 5-9 years old (girls and boys)

Tablets required for prophylactic dose

D – Number of out of school children = (200*52) = 10,400

Tablets required for therapeutic dose: Anemic 5-9 year old out of school girls and boys identified (estimated to be 50%) to be given therapeutic dose of 3 mg iron/kg/day for 2 months.

Note: The average weight of 5-9 year old children ranges from 15-20 kgs. Hence, one tab of 45 mg iron and 400 mcg folic acid can be given **once daily for 60 days** (2 months) as therapeutic dose.

Therefore, **E** = 50% of 200 = 100 = (100*1)*60 = 6,000

Total Requirement for out of school children (F) = D+E= 10,400+6000= 16,400

Total requirement= (C+F)= (8,20,000+16,400) = 8,36,400

Note: To avoid overestimation, buffer stock estimate should be adjusted with the total prophylactic dose required (A) as it includes prophylactic dose estimates for anemic children also.

In case if the state has 2,00,000 stock in hand left and 1,00,000 stock in pipe line. The total final requirement will be

Total Requirement- (stock in hand+ stock in pipe line)= 8,36,000-(2,00,000+1,00,000)= 5,36,000

Note: Estimation of number of anemic 5-9 year old children may vary from state to state depending on the anemia prevalence as per NFHS-4

4. ESTIMATION OF IFA SYRUP (50 ML) FOR 6-59 MONTHS CHILDREN

i. For 6-12 months children: Annually if there are 10,000 children aged 6-12 months old in a district and each child has to be given 8-10 doses of IFA syrup per month i.e. 96-120 ml of IFA syrup. It is estimated that each child will require two 50 ml bottles of IFA Syrup bottles as prophylactic doses

A. IFA bottles for prophylactic dose: for 10,000 children aged 6-12 months= (10,000* 2) = 20,000

B. IFA bottles for therapeutic dose : Estimating 50% of anemic children aged 6-12 months require **1ml of IFA Syrup/day for 2 months**

Therapeutic requirement of IFA syrup bottles will be = 5000*1 = 5000

Total requirement of IFA Syrup bottles for 6-59 months (A+B) = 20,000+5,000= 25000

ii. For children 1-3 years: Annually if there are 10,000 children aged 1-3 years old in a district and each child has to be given 8-10 doses of IFA syrup per month i.e. 96-120 ml of IFA syrup. It is estimated that each child will require two 50 ml bottles of IFA Syrup bottles as prophylactic doses

C. IFA bottles for prophylactic dose: for 10,000 children aged 1-3 years= (10,000* 2) = 20,000

D. IFA bottles for therapeutic dose : Estimating 50% of anemic 1-3 years old children require 1.5ml of IFA Syrup/day for 2 months

Therapeutic dosage of IFA syrup per child = $1.5 \times 60 = 90$ ml = 2 IFA Syrup bottle

Therapeutic requirement of IFA syrup bottles for 50% anemic children = 5000X2= 10,000

Total requirement of IFA Syrup bottles for 1-3 years children (C+D) = 20,000+10,000= 30,000

iii. For children 3-5 years: Annually if there are 10,000 children aged 3-5 years old in a district and each child has to be given 8-10 doses of IFA syrup per month i.e. 96-120 ml of IFA syrup. It is estimated that each child will require two 50 ml bottles of IFA Syrup bottles as prophylactic doses

E. IFA bottles for prophylactic dose: for 10,000 children aged 3-5 years= (10,000* 2) = 20,000

F. IFA bottles for therapeutic dose : Estimating 50% of anemic 3-5 years old children require **2 ml of IFA Syrup/day for 2 months**

The rapeutic dosage of IFA syrup per child = $2 \times 60 = 120$ ml = 2 IFSA Syrup bottle

Therapeutic requirement of IFA syrup bottles for 50% anemic children = 5000X2= 10,000

Total requirement of IFA Syrup bottles for 1-3 years children (E+F) = 20,000+10,000= 30,000

Note: To avoid overestimation, buffer stock estimate should be adjusted with the total prophylactic dose required as it includes prophylactic dose estimates for anemic children also

Note: Estimation of number of anemic adolescent girls and boys may vary from state to state depending on the anemia prevalence as per NFHS-4



Solid lines: Flow of Information Dash: Flow of supplies Dash Dot: States opting for Central procurement

Step 4: Distribution



Objective: To ensure timely and adequate distribution of supplies till the last mile i.e. Sub Centres, VHNDs and schools.

- i. Before initiating distribution:
 - Identify the supply delivery facilities and the distribution route
 - Define the distribution cycle (monthly, quarterly, biannually) and ascertain the quantity of supplies to be distributed to each delivery point (based on the indent request)
 - Update DVDMS/e-Aushadhi and HMIS to maintain track of supplies (receipt, distribution) and stock-at-hand details respectively
- ii. Identify the stock delivery points receiving supplies:
 - District/Block drug ware houses and health facilities dispensing products to end users should be identified as stock delivery points
 - Tracking of monthly consumption of supplies at the stock delivery points should be done
- iii. Tracking of supplies:
 - Bottom up tracking of supplies at the stock delivery points should be done to
 estimate consumption. For e.g. Block drug store should track the monthly stock
 supplied to the health facilities (SC,PHC, Schools, AWC etc.) in its vicinity and
 district drug store should track the stocks supplied to the block drug stores
 respectively.
- iv. Identify facilities:

The facility list should contain information about each facility (including store houses) in the supply chain. In addition to the facility code and contact person, the list should have the following information for each facility:

- Type of facility (for example, State/Regional/District Warehouse, Block Pharmacy, health facility, State/District government office etc.)
- Function of the facility (for example, warehouse, health facility or both)
- List of drugs in stock (IFA Red, Blue, Pink Syrup, Albendazole etc.)
- Minimum and maximum months' worth of stock
- v. Identify product category:

It is essential to define the category of IFA to be tracked by assigning unique product category codes, specification of the product and the minimum shipment amount from the central supplier.

To ensure seamless and smooth functioning of all activities linked with logistics of supply chain management, the following components have to be ensured:

- Each facility receives products from one—and only one—supply link.
- Products are distributed only to facilities at the next level in the supply chain.
- All facilities report on the same software or on traditional reporting formats.
- Reports are submitted to the linked health facility (PHC, CHC etc.), which can then electronically submit the data to the district or state level.

- Reporting is relatively complete, timely, and accurate.
- ✓ Facilities report beginning stock levels, receipts, issues and adjustments for each product during each reporting period
- vi. Identify the delivery vehicle:

Define the capacity of delivery vehicles in the distribution system and decide which vehicle to assign to a particular route in accordance with cargo volume and vehicle capacity.

vii. Define delivery routes:

After identifying the delivery vehicle and delivery personnel,

- Locate each health facility to ensure last mile delivery within the distribution network.
- Create a distribution network with identified distribution routes, facilities assigned, specified distance and traveling time between each facility in the route and between each facility and distribution center.

Facility wise historical distribution of supplies data can be obtained by timely and complete data entry in the inventory management system (DVDMS/e-Aushadhi etc.)

In case of stock-out:

- · Identify the facility most in need of resupply and request for an indent
- Based on the consumption pattern, estimate the actual quantity to be delivered to the facility
- Stocks can be deviated to the facility in need from facilities reporting surplus (based on their consumption pattern)
- This will maximize the effectiveness of limited delivery resources by scheduling deliveries according to need

Step 5: Reporting

The reporting of stock position has to be maintained on a monthly basis in the HMIS. At every level of health facility, entry on the stock position has to be recorded by the concerned service provider/ programme manager and validated by the officer in-charge.

The mechanism for reporting supply distribution and coverage data from schools is depicted in the diagram below:



Fig 4: Solid lines: Flow of supplies Dotted line: Flow of information (coverage data)

The process for flow of data in the HMIS is mentioned below:



The HMIS data elements in which stock status has to be updated are mentioned below.

HMIS DATA ELEMENTS FOR REPORTING ON STOCKS

HMIS 19.6	IFA Tablets (Red)
	 Balance from Previous Month Stock Received Unusable Stock Stock Distributed Total Stock
HMIS 19.7	IFA Tablets (Blue) (Adolescent 10-19 years)
	 Balance from Previous Month Stock Received Unusable Stock Stock Distributed Total Stock
HMIS 19.8	IFA Tablets (Pink) (WIFS Junior 5–9 years)
	 Balance from Previous Month Stock Received Unusable Stock Stock Distributed Total Stock
HMIS 19.9	IFA Syrup (Pediatric)
	 Balance from Previous Month Stock Received Unusable Stock Stock Distributed Total Stock
HMIS	Albendazole Tablets 400 mg
19.15	 Balance from Previous Month Stock Received Unusable Stock Stock Distributed Total Stock
NEW	Percentage of stocks available for Insecticidal Treated Nets (ITNs)



- ☑ Identify the processes and personnel involved at the various level to improve transparency and timely flow of information
- ☑ Identify bottlenecks in IFA need forecasting and inconsistent supplies due to delays in supplier deliveries
- Stock delivery point and facility route mapping should be done to ensure timely and adequate distribution of supplies till the last mile
- ☑ Indents and supplies at the level of health facility and schools should be fixed to every quarter to ensure feasibility and availability of sufficient stocks around the year
- Stock in hand and IFA coverage/distribution data should also be considered while estimating annual indents at the block and district level.
- Records on stock received (quantity and quality check), batch number, stock distributed and balance stock should be maintained and made available for raising indents
- ☑ Timely and complete monthly reporting of data in terms of coverage and stocks should be uploaded on HMIS portal for effective planning and monitoring.

Session 3: Roles and Responsibilities of State/ district/block Team

To establish an effective and efficient Supply Chain Management system, it is critical that the programme management team involved in various processes of the supply chain not only understand their respective roles but also strategically manage supplies across partners, logistics functions and health system levels while monitoring the overall system performance and its individual functions.



Key objective:

• To orient the programme management unit on their respective roles and responsibilities in various processes under supply chain management



Duration of the training: 30 mins



Methodology adopted:

• Presentation and discussion (including AMB financial template)



Resources needed (for imparting training):

• Projector, laptop, screen

Roles and responsibilities of personnel involved in AMB Supply Chain Management: State team

Process	State Nodal Officer (Child, Adolescent and Maternal Health)	State Procurement Manager (NHM Procurement)	Manager – Procurement/ Drug Store, Medical Service Infrastructure Corporation Limited (MSICL)	State Data Entry Operator
Planning and forecasting estimates	 Process for including IFA supplementation with newer specifications in State-EDL Coordinate with Department of Education and DWCD for annual in school and out of school children estimates for IFA Blue and Pink Develop an annual estimation for IFA (Red, Blue, Pink and Syrup) and Albendazole Validate estimations with district targets Propose estimation in annual PIPs and ensure necessary approvals and funds Communicate requirement to NHM procurement cell. 	 Review revised technical specifications Ensure availability of funds in coordination with programme team 	» Map availability of suppliers on revised IFA tablet specification and ensure fund approvals for procurement.	 Maintain updated stock records in HMIS and DVDMS Share district wise stock status report with concerned programme team for informed decision Analyse stock status and intimate programme team on patterns in reporting and compilation from districts
Indent	 » Estimation of indents to be done as per calculations mentioned in AMB guidelines » Estimation for consecutive financial year to be completed before initiation of state PIP process (December-January) » Ensure timely submission of indents to procurement division » Solicit regular indents from districts to maintain transparency and accountability. 	 Share required indent placed by districts (updated in DVDMS or state specific LMIS) with programme team for further action In concurrence with programme team, ensure timely release of approved quantity of supplies to the concerned district. 	No specific procedure	No specific procedure

Process	State Nodal Officer (Child, Adolescent and Maternal Health)	State Procurement Manager (NHM Procurement)	Manager – Procurement/ Drug Store, Medical Service Infrastructure Corporation Limited (MSICL)	State Data Entry Operator
Procurement	 Finalize quantity of supplies to be procured for the state based on distribution pattern, current stock available, stock distributed, pipeline inventory and safety (buffer) stock Fix procurement cycle in conjunction with State Medical Service and Infrastructure Corporation Limited in view of storage space and shelf life of the product. 	 Float the tender for bids and convene meeting with the state procurement committee to finalize (technical and financial) bids Ensure necessary checks on manufacturers, for example, licenses and regulatory approvals, compliance to quality control measures, quality manufacturing practices etc. Solicit necessary approvals and issue Rate Contracts In conjunction with programme team, decide procurement cycle depending upon storage capacity and stock delivery points within distribution cycle. 	 Ensure manufacturer compliance to the procurement cycle and lead times Ensure timely receipt of consignment and dispatch of concerned storage unit/s within the distribution cycle. Ensure strict adherence to norms and procedures such as delivery time, minimum shelf life, bank guarantee, quality checks etc. mentioned in Rate Contract. Identify defaulters and ensure appropriate penalty imposed 	» Update DVDMS or state LMIS with the procurement quantity, batch number, stock received, buffer stock expiry date etc.

Process	State Nodal Officer (Child, Adolescent and Maternal Health)	State Procurement Manager (NHM Procurement)	Manager – Procurement/ Drug Store, Medical Service Infrastructure Corporation Limited (MSICL)	State Data Entry Operator
Warehouse and inventory management	Coordinate with district AMB nodal officer to ascertain minimum and maximum stock level to be maintained at district drug warehouse depending upon target beneficiaries and distribution pattern.	No specific procedure	 Tack orders and systematically locate supplies in relation of receiving, packing and shipping areas Physical checks of consignment received for quantity, quality compliance, damage, pilferage, batch number, expiry, supplier details etc. Identify IFA category by assigning unique barcode, color etc. Identify delivery routes within distribution network and estimated delivery time based on distance in between districts and from district to state warehouse. Maintain and update Bin card (Tally) system to update order receipt details (batch wise) Identify delivery vehicle based on cargo volume and vehicle capacity Follow First-Expiry- First-Out (FEFO) system of inventory control to reduce wastage and expiry Ensure aisles are clear and supplies are stacked neatly in pre- designed place Ensure emergency exists and sprinklers are not blocked Safety expectation to be placed in highly visible locations Manage expired drugs, damaged materials and their quantification and disposal. 	» Update DVDMS or state LMIS with the procurement quantity, batch number, stock received, buffer stock expiry date etc.

Process	State Nodal Officer (Child, Adolescent and Maternal Health)	State Procurement Manager (NHM Procurement)	Manager – Procurement/ Drug Store, Medical Service Infrastructure Corporation Limited (MSICL)	State Data Entry Operator
Distribution	 » Identify stock delivery points within the distribution circle and ascertain the quantity of supplies to be distributed » Intimate the state warehouse (logistics team) on scheduling deliveries according to the need to prevent stock out or surplus. 	Follow up with districts to timely update stock receipt status in DVDMS/state specific LMIS after dispatch from state level.	 » Define minimum shipment size » Track vehicles scheduled for delivery and vehicles completed deliveries » Ensure timely supplies to respective stock delivery point. » Follow up with districts on timely receipt of supplies at the warehouse. 	
Reporting	Coordinate with district AMB nodal officers to report on monthly progress and quarterly trend on stock distribution and other coverage key performance indicators.	Generate quarterly status on stock receipt and distribution within the circle and share with programme nodal officer for further action.	No specific activity	Follow up with districts to ensure timely data entry on stock position (received, distributed, in- hand) and service coverage in HMIS. (<i>IFA HMIS data</i> <i>elements annexed</i>)
Review and supervision	 Review district wise progress on stock distributed (monthly) and service coverage (quarterly) based on AMB Dashboard Portal Identify gaps and areas for improvement in service delivery (IFA Red, Pink, Blue, Syrup) Identify good practices on the ground to improve coverage and explore feasibility for scale up Encourage districts to include review of stocks and supply chain status under AMB in monthly review meetings with CMOH and District Collector. 	No specific activity	 Technical assistance to GM procurement on matters related to purchase, storage and distribution of drugs Convene meeting of district drug/store manager in order to motivate them and harness their skills. 	Provide handholding support to district data entry operators on queries related to source of data for stock position (balance, received, used, unused and distributed)

Roles and responsibilities of personnel involved in AMB Supply Chain Management: District team

Process	District Programme Team (District Programme Manager and Community Mobilizer)	District Drug Manager	District Data Entry Operator
Planning and forecasting estimates	 Coordinate with Department of Education and WCD for annual in school and out of school children estimates for IFA Blue and Pink Develop an annual estimation for IFA (Red, Blue, Pink and Syrup) and Albendazole Propose estimation in annual district PIPs and ensure necessary approvals and funds Communicate the requirement to state programme team 	» Ensure availability of funds in coordination with the programme team	 Maintain updated stock records in HMIS and DVDMS Share block wise stock status report with concerned programme team for informed decision Analyse stock status and intimate programme team on patterns in reporting and compilation from blocks
Indent	 » Estimation of indents to be done as per calculations mentioned in AMB guidelines » Estimation for consecutive Financial Year to be completed before initiation of district PIP process (December-January) » Ensure timely submission of indent estimates to state programme team » Solicit regular indents from blocks to maintain transparency and accountability. 	 Share required indent placed by blocks (updated in DVDMS or state specific LMIS) with programme team for further action In concurrence with programme team, ensure timely release of approved quantity of supplies to concerned district. 	No specific activity
Procurement	 Finalize quantity of supplies to be procured for the district based on distribution pattern, current stock available, stock distributed and safety(buffer) stock Communicate final quantity of drug to be procured. 	 Ensure necessary checks on manufacturers for e.g. licenses and regulatory approvals, compliance to quality control measures, quality manufacturing practices etc. In case of local purchase Assist in floating tender for bids and convene meeting of district procurement committee to finalize (technical and financial) bids Solicit necessary approvals and issue Rate Contracts In conjunction with programme team, decide procurement cycle depending upon storage capacity and stock delivery points within 	Update DVDMS or state specific LMIS and HMIS with procurement quantity, batch number, stock received, buffer stock expiry date etc.

Process	District Programme Team (District Programme Manager and Community Mobilizer)	District Drug Manager District Data Entry Operator
Warehouse and inventory management	Coordinate with block medical officers to ascertain minimum and maximum stock level to be maintained at block pharmacy depending upon target beneficiaries and distribution pattern.	 Tack orders and systematically locate supplies in relation of receiving, packing and shipping areas Physical checks of consignment received for quantity, quality compliance, damage, pilferage, batch number, expiry, supplier details etc. Update DVDMS and HMIS (monthly) to provide accurate data on inventory position (stock distributed and stock at hand) and consumption to facilitate efficient order and re-order.
		 » Identify IFA category by assigning unique barcode, color etc.
		 Identify delivery routes within distribution network and estimated delivery time based on distance in from districts to blocks and within blocks
		 Maintain and update Bin card (Tally) system to update order receipt details (batch wise)
		 » Identify delivery vehicle based on cargo volume and vehicle capacity
		 Follow First-Expiry-First- Out (FEFO) system of inventory control to reduce wastage and expiry
		 Ensure aisle are clear and supplies are stacked neatly in the pre- designed place.
Distribution	 » Identify stock delivery points within the distribution circle and ascertain the quantity of supplies to be distributed » Intimate the district warehouse (logistic team) on scheduling deliveries to blocks according to their need to 	 » Follow up with blocks to timely update stock receipt status in DVDMS/state specific LMIS after dispatch from district level No specific activity
	prevent stock out or surplus.	» Define minimum shipment size
		 Track vehicles scheduled for delivery and vehicles completed deliveries
		 Ensure timely supplies to respective block pharmacy
		 Follow up with blocks on timely receipt of supplies.

Process	District Programme Team (District Programme Manager and Community Mobilizer)	District Drug Manager	District Data Entry Operator
Reporting	» Coordinate with Block Medical Officers to report on monthly progress and quarterly trend on stock distribution and other coverage key performance indicators.	 » Generate quarterly status on stock receipt and distribution within the circle and share with District Programme Officer for further action. 	Follow up with blocks to ensure timely data entry on stock position (received, distributed, in-hand) and service coverage in HMIS.
			(IFA HMIS data elements annexed in reporting section)
Review and supervision	 Review block wise progress on stock distributed (monthly) and service coverage (quarterly) based on HMIS data 	Convene meeting with block pharmacists in order to motivate them and harness their skills.	Provide handholding support to block data entry operators on queries related
	 Identify gaps and areas for improvement in service delivery (IFA Red, Pink, Blue, Syrup) 		to source of data for stock position (balance, received, used, unused and
	 Identify good practices on the ground to improve coverage and explore feasibility for scale up 		distributed).
	 Encourage blocks to include review of stocks and supply chain status under AMB in monthly review meetings with the BMOH. 		

Roles and responsibilities of personnel involved in AMB Supply Chain Management: Block (CHC or Nodal PHC) team

Process	Block Programme Team (Block Programme	Block	Block Data Entry
	Manager, Block Community Mobilizer and Block Programme Assistants)	Pharmacist	Operator
Planning and forecasting estimates	 Coordinate with Block Resource Coordinator and Block ICDS officer for annual in school and out of school children estimates for IFA Blue and Pink Develop an annual estimation for IFA (Red, Blue, Pink and Syrup) and Albendazole Propose estimation in annual block PIPs and ensure necessary approvals and funds Communicate the requirement to district programme team. 	No specific activity	 Maintain updated stock records in HMIS and DVDMS Share stock status of PHC area (consolidated) report with the concerned programme team for informed decision Analyse the stock status and intimate the programme team on patterns in reporting and compilation from the blocks.
Indent	 » Estimation of indents to be done as per calculations mentioned in AMB guidelines » Estimation for the consecutive Financial Year to be completed before initiation of district PIP process (December-January) » Ensure timely submission of indent estimates to the district programme team » Solicit regular indents (consolidated) from the PHC to maintain transparency and accountability. 	 Share the required indent placed by health facilities (updated in DVDMS or state specific LMIS) with the programme team for further action In concurrence with the programme team, ensure timely release of approved quantity of supplies to the concerned PHC. 	No specific procedure
Procurement	 Finalize the quantity of supplies to be procured by each PHC on distribution pattern, current stock available, stock distributed and safety(buffer) stock Communicate the final quantity of the drug to be procured. 	No specific procedure	Update DVDMS or state specific LMIS and HMIS with the procurement quantity, batch number, stock received, buffer stock expiry date etc.
Warehouse and inventory management	Coordinate with the PHC medical officer to ascertain minimum and maximum stock level to be maintained at the block pharmacy depending upon the target beneficiaries and distribution pattern.	No specific procedure	Update DVDMS and HMIS (monthly) to provide accurate data on inventory position (stock distributed and stock at hand) and consumption to facilitate efficient order and re-order.

Process	Block Programme Team (Block Programme Manager, Block Community Mobilizer and Block Programme Assistants)	Block Pharmacist	Block Data Entry Operator
Distribution	 » Identify stock delivery points within the distribution circle and ascertain the quantity of supplies to be distributed » Intimate PHC pharmacist on scheduling deliveries to PHCs according to their need to prevent stock out or surplus. 	Follow up with PHCs to timely update stock receipt status in DVDMS/state specific LMIS after dispatch from district level.	
Reporting	Coordinate with PHC Medical Officers to report on monthly progress and quarterly trend on stock distribution and other coverage key performance indicators based on HMIS data	Generate quarterly status on stock receipt and distribution within the circle and share with the Block Programme Officer for further action.	Follow up with PHCs to ensure timely data entry on stock position (received, distributed, in-hand) and service coverage in HMIS. (<i>IFA HMIS data</i> <i>elements annexed in</i> <i>reporting section</i>)
Review and supervision	 Review PHC wise (consolidated) progress on stock distributed (monthly) and service coverage (quarterly) based on HMIS data Identify gaps and areas for improvement in service delivery (IFA Red, Pink, Blue, Syrup) 	No specific procedure	Provide handholding support to PHC data entry operators on queries related to source of data for stock position
	 » Identify good practices on the ground to improve coverage and explore feasibility for scale up » Encourage the PHC Medical Officer to include review of stocks and supply chain status under AMB in monthly review meetings. 		(balance, received, used, unused and distributed).

ANEMIA MUKT BHARAT DASHBOARD: ONE STOP PORTAL FOR REPORTING, MONITORING AND REVIEW



SESSION 1: Introduction

SESSION 2: Data

SESSION 3: Quarterly Progress Report

SESSION 4: Resources

Session 1: Introduction



Duration of the training: 30 minutes



Key Focus:

• Overall introduction to Anemia Mukt Bharat (AMB) online dashboard and programme.



Learning Objective:

 To understand different aspects of the AMB strategy and exposure to different elements of the AMB dashboard



Methodology:

Presentation

Resource:

• 'Introduction' presentation, AMB mobile App in smartphones



AMB Mobile Application

The AMB mobile app available in Android and the Apple Play Store has been designed to search for data; easily visualize tables and graphs, create map visualization reports and share them with others via standard sharing options.



Visualizing Six Eligible Groups of

ill Beneficiarie

450 Million

will be reached

Beneficiaries



Visualizing Six Interventions

- Prophylactic Iron and Folic Acid supplementation
- Deworming
- Intensified year-round Behaviour Change Communication (BCC) campaign (Solid Body, Smart Mind) including ensuring delayed cord clamping in newborns
- Testing of anemia using digital methods and point of care treatment
- Mandatory provision of Iron and Folic Acid fortified foods in government-funded health programmes
- Addressing non-nutritional causes of anemia in endemic pockets, with special focus on malaria, haemoglobinopathies and fluorosis



Visualizing Six Institutional Mechanisms

- Intra-ministerial coordination
- National Anemia Mukt Bharat
 Unit
- National Centre of Excellence and Advanced Research on Anemia Control
- Convergence with other Ministries
- Strengthening supply chain and logistics
- AMB dashboard and digital portal – One-stop shop on anemia

O INST			SMS	
Coordination				
Mukt Bharat Unit				
of Excellence and Advance	d Research on Anem	ia Control		
pply Chain and Logistics				
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India Target@2022

Current anemia prevalence and target to be achieved by 2022

For Programme:	For Dashboard:
National AMB PMU MoHFW	E-mail: ambhelpdeskmohfw@gmail.com
E-mail. amb.mohfw@gmail.com	
Submit your query/messages	
Query Type	•
Name	Organization
Email	Contact No
Message	Choose File No file chosen
Cuborit	
Submit	

Session 2: Data



Duration: 1 hour



Key Focus:

• Data mining and analysis



Learning Objective:

• To understand the various AMB data elements and their definition.



Methodology:

Presentation



Resource:

AMB dashboard

AMB Data Elements Matrix based on HMIS Reporting

Sr No	Data Element	sc	РНС	СНС	SDH	DH	DHQ
Part A.	REPRODUCTIVE AND CHILD HEALTH		(HMIS cod	le on resp	ective fac	ility type)	
M1	ANC Detail						
1.2.4	Data Element -Number of PW given 180 Iron Folic Acid (IFA) tablets	1.2.4	1.2.4	1.2.4	1.2.4	1.2.4	NA
1.2.6	Data Element: Number of PW given one Albendazole tablet after 1st trimester	1.2.6	1.2.6	1.2.6	1.2.6	1.2.6	NA
1.4.2	Data Element- Number of PW having Hb level<11 (tested cases) (7.1 to 10.9)	1.4.2	1.4.2	1.4.2	1.4.2	1.4.2	NA
1.4.3	Data Element- Number of PW having Hb level<7 (tested cases)	1.4.3	1.4.3	1.4.3	1.4.3	1.4.3	NA
1.4.4	Data Element- Number of PW having severe anaemia (Hb<7) (treated cases)	NA	1.4.4	1.4.4	1.4.4	1.4.4	NA
M6	Post Natal Care						
6.3	Data Element - Number of mothers provided full course of 180 IFA tablets after delivery	4.3	6.3	6.3	6.3	6.3	NA
M9	Child Immunization	6.9	9.9	9.9	NA	NA	NA
9.9	Data Element-Number of children (6-59 months) provided 8-10 doses (1ml) of IFA syrup (Bi weekly) NIPI	6.9	9.9	9.9	NA	NA	NA
9.10	Data Element-Total Number of children (12-59 months) provided Albendazole	6.10	9.10	9.10	9.10	9.10	NA
Part D	Monthly Inventory details						
н	Stock Position (During the Month)						
M19	Other Items						
19.6	IFA tablets (Adult)	NA	NA	NA	NA	NA	3.6
19.7	IFA - Blue (Adolescent 10-19 yrs)	NA	NA	NA	NA	NA	3.7

Sr No	Data Element	SC	РНС	СНС	SDH	DH	DHQ
19.8	IFA- Pink (Junior 6-10 yrs)	NA	NA	NA	NA	NA	3.8
19.9	Iron and folic acid (IFA) Syrup-Paediatric	NA	NA	NA	NA	NA	3.9
19.15	Albendazole tablets 400mg						
Part E	Other Programmes		1	1		1	1
M22	Adolescent Health						
22.1	Coverage under Weekly Iron and Folic Ac	id (WIFS)	Supplem	entation F	Programm	e	
22.1.1	Number of students (6th -12th class) prov	vided 4 IFA	A tablets i	n schools	;		
22.1.1.a	Data Element- Girls (6th -12th class) provided 4 IFA tablets in schools	NA	NA	NA	NA	NA	6.1.1.a
22.1.1.b	Data Element- Boys (6th -12th class) provided 4 IFA tablets in schools	NA	NA	NA	NA	NA	6.1.1.b
22.1.2	Number of students (6th -12th class) prov	vided Albe	endazole i	n schools	;	1	1
22.1.2.a	Data Element- Girls (6th -12th class) provided Albendazole in schools	NA	NA	NA	NA	NA	6.1.2.a
22.1.2.b	Data Element- Boys (6th -12th class) provided Albendazole in schools	NA	NA	NA	NA	NA	6.1.2.b
22.1.3	Data Element- Number of out of school adolescent girls (10-19 years) provided 4 IFA tablets at Anganwadi Centres	NA	NA	NA	NA	NA	6.1.3
22.1.4	Data Element- Number of out of school adolescent girls (10-19 years) provided Albendazole at Anganwadi Centres	NA	NA	NA	NA	NA	6.1.4
M23	Coverage under WIFS JUNIOR (Weekly Ir 6 - 10 years) - PINK IFA tablet	on Folic A	cid Supp	lementatio	on Progra	mme for o	children
23.1	Data Element- Number of children covered under WIFS JUNIOR (6 - 10 years) provided 4-5 IFA tablets in schools	NA	NA	NA	NA	NA	7.1
23.2	Data Element- Number of children (6 - 10 years) provided Albendazole in schools	NA	NA	NA	NA	NA	7.2
23.3	Data Element- Number of out of school children (6-10 years) given 4-5 IFA tablets at Anganwadi Centres	NA	NA	NA	NA	NA	7.3
23.4	Data Element- Number of out of school children (6-10 years) provided Albendazole at Anganwadi Centres	NA	NA	NA	NA	NA	7.4

Data Definitions

1.2.4 G		1.2.4						
1.2.4 D el G	80 Iron Folic Acid (IFA) tablets Definition: Total number of pregnant wome	1.2.4						
el G N			1.2.4	1.2.4	1.2.4	1.2.4	NA	
N	Definition: Total number of pregnant women who have given 180 IFA tablets (equivalent to 60 mg elemental iron and 0.5 mg of folic acid per tablet daily) during the re-porting month.							
If	Guideline: The number of pregnant women who were given 180 IFA tablets are to be reported and NOT the number of IFA tablets.							
re st	f the number of IFA tablets given to a preg eported till she is given 180th tablet. If mor he should be counted when she had recei ablets given to her.	re than 18	0 IFA table	ets are give	en to any p	regnant w	oman,	
	his number should NOT be more than AN person other than pregnant women is not in		tion. If it is	more, ther	n please cl	neck that a	iny	
D	Data Source – Antenatal Register / Pregna	ancy Regis	ster					
01	Data Element: Number of PW given one Albendazole tablet after 1st rimester	1.2.6	1.2.6	1.2.6	1.2.6	1.2.6	NA	
	Definition: Total number of pregnant women st trimester for the reporting month.	en who we	re given o	ne tablet o	f Albenda	zole (400 r	ng) after	
re	Guideline: The number of pregnant womer eported and NOT the number of Albendaz 400 mg).			e tablet of	Albendaz	ole(400 m	g) is to be	
	his number should NOT be more than AN person other than pregnant women is not ir		tion. If it is	more, ther	n please cl	neck that a	any	
D	Data Source – Antenatal Register / Pregna	ancy Regis	ster					
	Data Element- Number of PW having Ib level<11 (tested cases) (7.1 to 10.9)	1.4.2	1.4.2	1.4.2	1.4.2	1.4.2	NA	
	Definition: Number of pregnant women ha 7.1 to 10.9 g/dl) during the reporting month		noglobin (I	Hb) less th	an 11g/dl	<u> </u>		
or	Guideline: Only those cases are to be report or any other acceptable laboratory method cases should be REPORTED.							
D	Data Source – Antenatal Register / Labora	tory Regis	ster					
	Data Element- Number of PW having Ib level<7 (tested cases)	1.4.3	1.4.3	1.4.3	1.4.3	1.4.3	NA	
	Definition: Number of pregnant women tes he reporting month.	sted and fo	ound with	Haemoglo	bin (Hb.) le	ess than 7	g/dl during	
or	Guideline: Only those cases are to be report or any other acceptable laboratory method nails is not to be reported. ONLY NEW CAS	and was f	ound to be	e less than	7g/dl. Exa			
D	Data Source – Antenatal Register / Labora	tory Regis	ster					

Sr No	Data Element	SC	РНС	снс	SDH	DH	DHQ				
	Data Element- Number of PW having severe anaemia (Hb<7) (treated cases)	NA	1.4.4	1.4.4	1.4.4	1.4.4	NA				
1.4.4	Definition: Total number of pregnant wom reporting month.	en with H	laemoglob	in (Hb.) le	ss than 7g	/dl treated	l during the				
	Guideline: Pregnant woman who has hae at health facilities are to be either treated in higher facility for treatment.										
	Data Source – Antenatal Register / Labora	atory Reg	gister								
	Data Element - Number of mothers provided full course of 180 IFA tablets after delivery	4.3	6.3	6.3	6.3	6.3	NA				
	Definition: Total number of mothers who were given 180 IFA tablets (equivalent to 60 mg of eleme iron and 0.5 mg of folic acid per tablet daily) during the reporting month.										
6.3	Guideline: The number of mothers who w number of IFA tablets. If the number of IFA not be reported till she is given 180th table should be counted when she had received given to her.	tablets	given to a r e than 180	mother is l IFA tablets	less than 1 s are giver	80, then s to any me	he should other, she				
	Any person other than woman (who has re here.	cently de	elivered) giv	ven IFA ta	blets shou	ld not be o	counted				
	Data Source – Pregnancy Register/Post-na	atal Regi	ster								
	Data Element-Number of children (6-59 months) provided 8-10 doses (1ml) of IFA syrup (Bi weekly) NIPI	6.9	9.9	9.9	NA	NA	NA				
9.9	Definition: Total number of children, aged the reporting month.	6-59 mo	nths, who v	were giver	18-10 dose	es of IFA s	syrup during				
	Guideline: As per National Iron Plus Initia ml of IFA syrup containing 20 mg of eleme a year. Those children who were given biwe should be reported.	ental iron	and 100 m	ncg of folio	acid biwe	ekly for 10	00 doses in				
	Data Source: AMB Reporting format										
	Data Element-Total Number of children (12-59 months) provided Albendazole	6.10	9.10	9.10	9.10	9.10	NA				
9.10	Definition: Total number of children, aged during the reporting month.	12-59 m	onths, who	were give	en Albenda	zole (400	mg) tablet				
	Guideline: As per National Iron Plus Initia mg Albendazole tablet.	tive (NIP), children	aged 12-5	59 months	should be	given 400				
	Data Source: AMB Reporting format										
Part D	Monthly Inventory details										
	Stock Position (During the Month)										
	Balance from Previous month: Balance rer	naining ii	n the store	on last da	y of the p	evious mo	onth.				
	Stock received: Stock received from 1st t	o last da	y of the rep	porting mo	onth.						
н	Unusable stock: The stock, which become Unusable Stock can occur due to a variety quantum/number is to be recorded. Record	of reaso	ons like bre	akage, ex	piry, Wasta	iges etc. a	nd this				
		a haalth f	11141 1	مانمه الم							
	Stock Distributed: Stock distributed to the	e nealtri	acilities in	the distric	t auring the	e reporting	g month.				

Sr No	Data Element	sc	РНС	снс	SDH	DH	DHQ
M19	Other Items		4	4		,	
19.6	IFA tablets (Adult)	NA	NA	NA	NA	NA	3.6
19.7	IFA - Blue (Adolescent 10-19 yrs)	NA	NA	NA	NA	NA	3.7
19.8	IFA- Pink (Junior 6-10 yrs)	NA	NA	NA	NA	NA	3.8
19.9	Iron and folic acid (IFA) Syrup-Paediatric	NA	NA	NA	NA	NA	3.9
19.15	Albendazole tablets 400mg	NA	NA	NA	NA	NA	3.15
Part E	Other Programmes						
M22	Adolescent Health						
22.1	Coverage under Weekly Iron and Folic A	Acid (WIF	S) Supple	mentation	Program	me	
22.1.1	Number of students (6th -12th class) pr	ovided 4 I	FA tablets	s in schoo	ls		
	Data Element- Girls (6th -12th class) provided 4 IFA tablets in schools	NA	NA	NA	NA	NA	6.1.1.a
	Definition: Total number of girls (6th – 12t ingestion in schools during the reporting m		onsumed 4	IFA tablet	s through	supervise	d
22.1.1.a	Guidelines: Adolescent Girls in Classes 6 Municipal schools covered under the WIFS month. The IFA tablets should be given at t should be supervised by Teacher.	th to 12th S Program	me who ha	as consum	ed 4 IFA ir	n the repor	ting
	Data Source: Format-5, District Monthly R	eport				1	1
	Data Element- Boys (6th -12th class) provided 4 IFA tablets in schools	NA	NA	NA	NA	NA	6.1.1.b
	Definition: Total number of boys (6th – 12 ingestion in schools during the reporting m		onsumed 4	4 IFA table	ts through	supervise	d
22.1.1.b	Guidelines: Adolescent Boys in Classes 6 Municipal schools covered under the WIFS month. The IFA tablets should be given at t should be supervised by Teacher.	S Program	ne who ha	as consum	ed 4 IFA ir	n the repor	ting
	Data Source: Format-5, District Monthly R	eport					

Sr No	Data Element	SC	РНС	СНС	SDH	DH	DHQ	
22.1.2	Number of students (6th -12th class) pro	ovided All	bendazole	e in schoo	ls		2	
	Data Element- Girls (6th -12th class) provided Albendazole in schools	NA	NA	NA	NA	NA	6.1.2.a	
22.1.2.a	 Definition: Total number of girls (6th – 12th class) consumed Albendazole tablets through supervise ingestion in schools during the reporting month. Guidelines: Adolescent Boys in Classes 6th to 12th studying in Government, Government Aided or Municipal schools covered under the WIFS Programme who has consumed Albendazole Tablets in t reporting month. The IFA tablets should be given at the Schools and the ingestion of the tablets by th adolescent should be supervised by Teacher. 							
	Data Source: Format 5, District Monthly R	eport						
	Data Element- Boys (6th -12th class) provided Albendazole in schools	NA	NA	NA	NA	NA	6.1.2.b	
00 4 0 h	Definition: Total number of boys (6th – 12 ingestion in schools during the reporting m		onsumed /	Albendazo	le tablets f	hrough su	pervised	
22.1.2.b	Guidelines: Adolescent Boys in Classes 6 Municipal schools covered under the WIFS reporting month. The IFA tablets should be adolescent should be supervised by Teach	Programi given at th	ne who ha	as consum	ed Albend	azole Table	ets in the	
	Data Source: Format 5, District Monthly R	eport						
	Data Element- Number of out of school adolescent girls (10-19 years) provided 4 IFA tablets at Anganwadi Centres	NA	NA	NA	NA	NA	6.1.3	
22.1.3	Definition: Total number of out of school a supervised ingestion at Anganwadi Center					4 IFA table	ts through	
	Guidelines: Out of School Adolescent Gir the reporting month. IFA Tablets should be the adolescent girl should be supervised b	given at A	nganwadi	Centre an				
	Data Source: Format-5, District Monthly R	eport						
	Data Element- Number of out of school adolescent girls (10-19 years) provided Albendazole at Anganwadi Centres	NA	NA	NA	NA	NA	6.1.4	
	Definition: Total number of out of school a through supervised ingestion at Anganwad						ble tablets	
22.1.4	Guidelines: Out of School Adolescent Gir Tablets in the reporting month. Albendazolo ingestion of the tablet by the adolescent gi	e tablet sh	ould be giv	/en at Ang	anwadi Ce	entre and t		
	Data Source: Format 5, District Monthly R	eport						
M23	Coverage under WIFS JUNIOR (Weekly 6 - 10 years) -	Iron Folic	Acid Sup	plementa	tion Prog	ramme foi	r children	
	PINK IFA tablet							

Sr No	Data Element	SC	РНС	СНС	SDH	DH	DHQ
	Data Element- Number of children covered under WIFS JUNIOR (6 - 10 years) provided 4-5 IFA tablets in schools	NA	NA	NA	NA	NA	7.1
23.1	Definition: Total number of children in class received minimum four sugar-coated pink of under the NIPI Weekly Iron Folic Acid Sup	colored Iro	n-folic acio	I tablets dι	uring the re	eporting m	
	Data Source – Monthly WIFS junior report						
	Data Element- Number of children (6 - 10 years) provided Albendazole in schools	NA	NA	NA	NA	NA	7.2
23.2	Definition: Number of children aged 6-10 government aided schools and private sch	•	administer	ed Albend	azole table	ets in gove	rnment-
	Data Source – Coverage report of Nationa	l Dewormi	ng Day				
	Data Element- Number of out of school children (6-10 years) given 4-5 IFA tablets at Anganwadi Centres	NA	NA	NA	NA	NA	7.3
23.3	Definition: Total number of out-of-school of have received minimum four sugar-coated under the NIPI Weekly Iron Folic Acid Sup	pink colore	ed Iron-foli	c acid tabl	ets during	the report	
	Data Source – Monthly WIFS junior report						
	Data Element- Number of out of school children (6-10 years) provided Albendazole at Anganwadi Centres	NA	NA	NA	NA	NA	7.4
23.4	Definition: Number of out of school childr Anganwadi centers	en aged 6	-10 years a	are admini	stered Alb	endazole t	ablets in
	Data Source – Coverage report of Nationa	l Dewormi	ng Day				

(Type of Formats SC-Sub Centre, PHC-Primary Health Centre, CHC-Cummunity Health Centre, SDH-Sub District Hospital, DHQ-District Head Quarter

Denominator

"The denominators are the target beneficiary numbers across each age group of AMB. These denominators are estimations (based on Census 2011 data) and reported programme targets. The denominators for each of these target groups are fixed for the FY and no edits of the data are allowed in the back end."

Area Name	Target Benefici	ary	Drugs Requirer	nent
india	2018-2019 🛓	2017-2018 🛦	2018-2019 🛦	2017-2018 🛦
Andaman & Nicobar Islands	2018-2019 🛦	2017-2018 🛦	2018-2019 🛦	2017-2018 🛦
Andhra Pradesh	2018-2019 🛦	2017-2018 🛦	2018-2019 🛦	2017-2018 🛦
Arunachal Pradesh	2018-2019 🛦	2017-2018 🛦	2018-2019 🛦	2017-2018 🛦
Assam	2018-2019 🛦	2017-2018 🛦	2018-2019 🛦	2017-2018 🛦
Bihar	2018-2019 🛓	2017-2018 🛦	2018-2019 🛦	2017-2018 🛦
Chandigarh	2018-2019 📥	2017-2018 🛦	2018-2019 🛦	2017-2018 🛦
Chhattisgarh	2018-2019 🛦	2017-2018 🛦	2018-2019 🛦	2017-2018 🛦
Dadra & Nagar Haveli	2018-2019 🛦	2017-2018 🛦	2018-2019 🛦	2017-2018 🛦
Process of Coverage Data Updated in AMB Dashboard

Data is being uploaded quarterly on the AMB portal. Each quarter is defined as Q1 (April to June),

Q2 (July to September), Q3 (October to December) and Q4 (January to March). The used numerators are from the HMIS Standard report generated from the HMIS portal. The HMIS Standard report is downloaded after one and half month completion of each quarter because of reporting done after completion of each month and compiled after 15 days. Thereafter data cleaning to remove non-reporting is performed on downloaded data according to the requirement of the AMB portal. Based on the cleaned data, a Data Entry Sheet (DES) is prepared and uploaded on the AMB portal. The percentage calculation based on the denominator is an automated process performed by pre-defined jobs. Thus the computed percentage data is shown on the AMB portal.





Key Performance Indicator Report

- HMIS 9.9: Children provided 8-10 doses (1ml) of Iron and Folic Acid (IFA) syrup (Bi weekly
- ✓ HMIS 23.1+23.3: Children covered under WIFS JUNIOR provided 4-5 iron and folic acid (IFA) tablets (In schools + out of school)
- MIS 22.1.1: Percentage of Adolescent (6-12 class) provided 4 IFA tablets in school
- ☑ (NEW) Percentage of women of reproductive age (WRA) 20-24 years, provided 4 Iron and Folic Acid (IFA) tablets (Under Mission Parivar Vikas)
- MIS 1.2.4: Percentage of Pregnant Women given 180 Iron and Folic Acid (IFA) tablets
- Percentage of Stock Availability of IFA Red, Blue, Pink and Syrup.





Percentage of children 6-59 months provided 8-10 doses (1ml) of Iron and Folic Acid (IFA) syrup (Bi weekly)

India - 2019.03

Label

The label is prevalence of anemia among 6 focused age groups. The purpose here is to represent the achievable target of reduction in anemia prevalence by one-third of NFHS-4 levels by 2022. These are calculated as 3 percentage points' reduction per year.



Label and Drop Down

Using the Label and Drop Down option, you can access Across State and District data in the Left Black box along with its download option.

Session 3: Quarterly Progress Report



Duration: 45 minutes



Key Focus:

Making an effective quarterly progress report



Learning Objective:

• To understand the quarterly report formulae and how to monitor the progress of various key indicators.



Methodology:

Presentation



Resource:

• Quarterly report format

Quarterly Progress Reports (QPR) are generated on age-group wise service deliveries and information on distribution of Iron and Folic Acid (IFA) syrup and tablets - Pink, Blue & Red, and Albendazole tablets among the 6 focused age groups. The information is derived on the basis of data updates available from HMIS indicators (Numerator) calculated using the eligible age specific respective denominators for each age group.

Thirder ("Bareth your area for tride, states and distributes India
Quarterly Progress Report
suarterly Progress Report (QPR) on age-group wise service deliveries and information on distribution of Iron and Folic Acid (IFA) syrup and tablets-Pink, Blue & Red, Ibendiazole tablets among the 6 focused age groups. The information is derived on the basis of data quadras available fram MMS indicators (Numerator) advalued using the eligible age specific respective denomination for acids age group. The GO guarant exploring year stars from April and ends in March of the ubsequent year (Q1-April to June, Q2-July to September, Q3-October to December and Q4 January to March (of subsequent year)).
Service Delivery
hildren 6-59 months
1622 95 073-49 95 0 274 95 0 755-1005 0 NO BATA 0 1980 B
1922 IN. • 25-38 V/s • 30 72 V/s • 75%-100% • IND DATA. • SPRCH Upss QI 2018-19 Upss Q2 2018-19 Upss Q3 2018-19 Upss Q3 2018-19 Upss Q4 2018-
Upis 01 2018-19 Upis 02 2018-19 Upis 02 2018-19 Upis 04 2018-19

Quarterly Progress Report Formulae

Age Group	HMIS Code	Indicators	Quarterly Progress Report Formulae		10	
			Q1	Q2	Q3	Q4
Children 6-59 months	HMIS 9.9	Children 6-59 months provided 8-10 doses (1 ml) of iron and folic acid (IFA) syrup (Bi weekly)	(respective Q1 Numerator) /3 x 100 Target)	(respective Q2 Numerator) /6 x 100 (Target) (respective Q2 Numerator) /6 x 100 (Target)	(respective Q3 Numerator) /9 x 100 (Target)	(respective Q4 Numerator) /12 x 100 (Target)
	HMIS 9.1	Children 12- 59 months provided albendazole	(respective Q1 Numerator) /3 x 100 (Target)	(respective Q2 Numerator) /6 x 100 (Target)	(respective Q3 Numerator) /9 x 100 (Target)	(respective Q4 Numerator) /12 x 100 (Target)
Children 5-9 years	HMIS 23.1+23.3	Children covered under WIFS JUNIOR (5-9 years) provided 4-5 iron and folic acid (IFA) tablets in schools+out of school	(respective Q1 Numerator) /3 <u>x</u> 100 (Target)	(respective Q2 Numerator) /6 x 100 (Target)	(respective Q3 Numerator) /9 x 100(Target)	(respective Q4 Numerator) /12 x 100 (Target)
	HMIS 23.2+23.4	Children (5-9 years) provided albendazole in schools+out of school	(respective Q1 Numerator) /3 <u>x</u> 100 (Target)	(respective Q2 Numerator) /6 x 100 (Target)	(respective Q3 Numerator) /9 x 100 (Target)	(respective Q4 Numerator) /12 x 100 (Target)
Adolescents	HMIS 22.1.1	Adolescents (6-12 class) provided 4 IFA tablets in schools	(respective Q1 Numerator) /3 <u>x</u> 100 (Target)	(respective Q2 Numerator) /6 x 100 (Target)	(respective Q3 Numerator) /9 x 100 (Target)	(respective Q4 Numerator) /12 x 100 (Target)
10-19 years	HMIS 22.1.1.a	Girls (6- 12 class) provided 4 IFA tablets in schools	(respective Q1 Numerator) /3 <u>x</u> 100 (Target)	(respective Q2 Numerator) /6 x 100 (Target)	(respective Q3 Numerator) /9 x 100 (Target)	(respective Q4 Numerator) /12 x 100 (Target)
Adolescents 10-19 years	HMIS 22.1.1.b	Boys (6- 12 class) provided 4 IFA tablets in schools	(respective Q1 Numerator) /3 <u>x</u> 100 (Target)	(respective Q2 Numerator) /6 x 100 (Target)	(respective Q3 Numerator) /9 x 100 (Target)	(respective Q4 Numerator) /12 x 100 (Target)
	HMIS 22.1.2	Adolescents (6-12 class) provided albendazole in schools	(respective Q1 Numerator) /3 <u>x</u> 100 (Target)	(respective Q2 Numerator) /6 x 100 (Target)	(respective Q3 Numerator) /9 x 100 (Target)	(respective Q4 Numerator) /12 x 100 (Target)

Age Group	HMIS Code	Indicators		Quarterly Progress	Report Formula	1e
			Q1	Q2	Q3	Q4
Adolescents	HMIS 22.1.2.a	Girls (6- 12 class) provided albendazole in schools	(respective Q1 Numerator) /3 <u>x</u> 100 (Target)	(respective Q2 Numerator) /6 x 100 (Target)	(respective Q3 Numerator) /9 x 100 (Target)	(respective Q4 Numerator) /12 x 100 (Target)
10-19 years	HMIS 22.1.2.b	Boys (6- 12 class) provided albendazole in schools	(<u>respective Q1</u> <u>Numerator) /3</u> <u>x</u> 100 (Target)	(respective Q2 Numerator) /6 x 100 (Target)	(respective Q3 Numerator) /9 x 100 (Target)	(respective Q4 Numerator) /12 x 100 (Target)
Adolescents	HMIS 22.1.3	Out of school adolescent girls 10- 19 years provided 4 iron and folic acid (IFA) tablets at Anganwadi Centres	(respective Q1 <u>Numerator) /3</u> <u>x</u> 100 (Target)	(respective Q2 Numerator) /6 x 100 (Target)	(respective Q3 Numerator) /9 x 100 (Target)	(respective Q4 Numerator) /12 x 100 (Target)
10-19 years	HMIS 22.1.4	Out of school adolescent girls 10- 19 years provided albendazole at Anganwadi Centres	(respective Q1 Numerator) /3 <u>x</u> 100 (Target)	(respective Q2 Numerator) /6 x 100 (Target)	(respective Q3 Numerator) /9 x 100 (Target)	(respective Q4 Numerator) /12 x 100 (Target)
Pregnant	HMIS 1.2.4	Number of pregnant women (PW) given 180 iron and folic acid (IFA) tablets	respective Q1 Numerator x 100 (ANC registered in respective Q)	respective Q2 Numerator <u>x 100</u> (ANC registered in respective Q)	respective Q3 Numerator <u>x 100</u> (ANC registered in respective Q)	respective Q4 Numerator x 100 (ANC registered in respective Q)
women	HMIS 1.2.6	Number of pregnant women (PW) given one albendazole tablet after 1st trimester	respective Q1 Numerator <u>x 100</u> (ANC registered in respective Q)	respective Q2 <u>Numerator</u> <u>x 100</u> (ANC registered in respective Q)	respective Q3 Numerator <u>x 100</u> (ANC registered in respective Q)	respective Q4 Numerator <u>x 100</u> (ANC registered in respective Q)
Prognant	HMIS 1.2.6	Number of pregnant women (PW) given one albendazole tablet after 1st trimester	respective Q1 Numerator <u>x 100</u> (ANC registered in respective Q)	respective Q2 <u>Numerator</u> <u>x 100</u> (ANC registered in respective Q)	respective Q3 Numerator <u>x 100</u> (ANC registered in respective Q)	respective Q4 <u>Numerator</u> <u>x 100</u> (ANC registered in respective Q)
Pregnant women	HMIS 1.4.2	Number of pregnant women (PW) having Hb level<11 (tested cases) (7.1 to 10.9)	respective Q1 Numerator <u>x 100</u> (ANC registered in respective Q)	respective Q2 Numerator <u>x 100</u> (ANC registered in respective Q)	respective Q3 Numerator <u>x 100</u> (ANC registered in respective Q)	respective Q4 Numerator <u>x 100</u> (ANC registered in respective Q)

Age Group	HMIS Code	Indicators	Quarterly Progress Report Formulae			
			Q1	Q2	Q3	Q4
Pregnant	HMIS 1.4.3	Number of pregnant women having Hb level<7 (tested cases)	respective Q1 Numerator <u>x 100</u> (ANC registered in respective Q)	respective Q2 Numerator <u>x 100</u> (ANC registered in respective Q)	respective Q3 Numerator x 100 (ANC registered in respective Q)	respective Q4 Numerator <u>x 100</u> (ANC registered in respective Q)
women	HMIS 1.4.4	Pregnant women having severe anaemia (Hb<7) treated	respective Q1 Numerator <u>x 100</u> (ANC registered in respective Q)	respective Q2 Numerator <u>x 100</u> (ANC registered in respective Q)	respective Q3 Numerator <u>x 100</u> (ANC registered in respective Q)	$\frac{\text{respective Q4}}{\text{Numerator}}$ $\frac{x \ 100}{\text{(ANC)}}$ $\frac{x \ 100}{\text{registered in}}$ $\frac{x \ 100}{\text{respective Q}}$
Lactating women 0-6 months	HMIS 6.3	Number of mothers provided full course of 180 iron and folic acid (IFA) tablets after delivery	respective Q1 Numerator <u>x 100</u> (No. of live birth/4)	respective Q2 Numerator <u>x 100</u> (No. of live birth/4)*2	respective Q3 Numerator <u>x 100</u> (No. of live birth/4)*3	respective Q4 Numerator <u>x 100</u> (No. of live birth)
Stocks available	HMIS 19.6	IFA - Red (Adult)	respective Q1 Numerator <u>x 100</u> (Target /4)	respective Q2 Numerator <u>x 100</u> (Target /4)*2	respective Q3 Numerator <u>x 100</u> (Target /4)*3	respective Q4 Numerator <u>x 100</u> (Target)
Otestes	HMIS 19.7	IFA - Blue (10-19 Years Adolescent)	respective Q1 Numerator <u>x 100</u> (Target /4)	respective Q2 Numerator <u>x 100</u> (Target /4)*2	respective Q3 Numerator <u>x 100</u> (Target /4)*3	respective Q4 Numerator <u>x 100</u> (Target)
Stocks available	HMIS 19.8	Iron and folic acid (IFA) tablets - Pink (Junior 6-10 years)	respective Q1 Numerator <u>x 100</u> (Target /4)	respective Q2 Numerator x 100 (Target /4)*2	respective Q3 Numerator <u>x 100</u> (Target /4)*3	respective Q4 Numerator <u>x 100</u> (Target)
Stocks available	HMIS 19.9	Iron and folic acid (IFA) - Syrup- Paediatric	respective Q1 Numerator x 100 (Target /4)	respective Q2 Numerator x 100 (Target /4)*2	respective Q3 Numerator <u>x 100</u> (Target /4)*3	respective Q4 Numerator <u>x 100</u> (Target)
Stocks available	HMIS 19.15	Albendazole tablets- 400 mg	respective Q1 Numerator <u>x 100</u> (Target /4)	respective Q2 Numerator <u>x 100</u> (Target /4)*2	respective Q3 Numerator <u>x 100</u> (Target /4)*3	respective Q4 Numerator x 100 (Target)
Reporting status	A.1	No. of facilities reporting in the quarter	respective Q1 Numerator <u>x 100</u> (Target)	respective Q2 Numerator x 100 (Target)	respective Q3 Numerator <u>x 100</u> (Target)	respective Q4 Numerator <u>x 100</u> (Target)

Session 4: Resources



Duration: 15-20 minutes



Key Focus:

Introduction to available resource materials



Learning Objective:

• To learn about different resource materials and how to use them



Methodology:

Presentation

Resource:

Online e-material, to be downloaded before the day of the session

Available Materials in Resources Section

- Communication materials like name slips, badge, poster, docket, brochure etc.
- Operational Guidelines in English and Hindi language
- Interpersonal communication materials like logo
- Social media ads for AMB
- Merchandise like banners, shirt cap images, book marks, booth branding, selfie booth etc.
- Workshop of 18th September 2018 materials

Awareness Generation	COMMUNICATIO Awareness Generat				
Operational Guideline	Name Slips		Badge		
Interpersonal Communication (IPC)	a i s ·	0 <u>1</u> e=			PDF
Anemia Mukt Bharat Report Cards	and a set of the set o				A
Mass media	Name Slip - Blue	Name Slip - Pink	Badge - English	Badge - Hindi	Die
Social media	Name Silp - Dide	Name Silp - Fills	Dauge - English	Dauge - Fillur	Die
Survey Section	Poster	Recipe Booklet	Docket		
Policy Briefs and Field Stories	• . •			PDF	
Merchandise			é=		
Anemia Mukt Bharat National Dissemination Workshop 18th September 2018	8 = #		Smart1	P.	
Guidance Note	Anemia Poster for Printing	Recipe Booklet Iron Rich Single Final	Docket	UNICEF-Docket die line	
Anemia Test, Treat, Talk Camp	Job Aid_Highres	Brochure			
Open Files of Artwork	A Design of the second				
Data for FY 2017-18		The second	Service .		

View Your Data

Raw data for the selected indicator is also available in View your data, using this numerator and given denominator you can calculate your percentage through the portal given directly for use.















