



# **NATIONAL GUIDELINES FOR COMMUNITY BASED MANAGEMENT OF ACUTE MALNUTRITION IN BANGLADESH**



**Institute of Public Health Nutrition (IPHN)  
Directorate General of Health Services  
Ministry of Health and Family Welfare  
People's Republic of Bangladesh**



# **NATIONAL GUIDELINES FOR Community-based Management of Acute Malnutrition in Bangladesh**

July 2017



**Institute of Public Health Nutrition (IPHN)  
Directorate General of Health Services  
Ministry of Health and Family Welfare  
People's Republic of Bangladesh**

**Mohammed Nasim, MP**  
**Minister**  
Ministry of Health & Family Welfare  
Govt. of the People's Republic of Bangladesh



মোহাম্মদ নাসিম, এমপি  
মন্ত্রী  
স্বাস্থ্য ও পরিবার কল্যাণ মন্ত্রণালয়  
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার



## Message

As a core component of the health, nutrition, and population sector, Nutrition is essential to sustain gains in the other sub-sectors of health and family planning. Nutrition is also central to improved educational outcomes. As such, eradicating malnutrition is one of the best investments a government can make.

Despite of significant economic progress and poverty reduction, malnutrition is still persistent problem in Bangladesh that hinders towards achieving the sustainable development goals and better nutrition for all. Severe acute malnutrition (SAM) is the most severe form of childhood malnutrition and a major cause of child deaths among children under five years of age that needs urgent treatment. In Bangladesh, 3.1% or about 450, 000 under-five children suffer from this condition at any point of time (BDHS 2014).

The Institute of Public Health Nutrition (IPHN) has revised "National Guidelines for Community based Management of Acute Malnutrition (CMAM)". The National Guideline is intended for Managers and Community level service providers, who will use this guideline, conduct community outreach activities and provide lifesaving management to children with acute malnutrition at the community level.

I would like to acknowledge the support and cooperation of all the partners and stakeholders who contributed to the revision of this important guideline. IPHN has been instrumental in developing this guideline through ensuring participatory and consultative development process. I hope, by using this guideline community health service providers will be able to manage children with acute malnutrition at community clinics and community health outreach sites as a part of child survival package. Therefore, it will help us to maximize the influence and impact we can leverage to unblock the wider benefits for our children.

Joy Bangla, Joy Bangabandhu  
Long live Bangladesh.

  
**Mohammed Nasim**

**Zahid Maleque, MP**  
**State Minister**  
Ministry of Health & Family Welfare  
Govt. of the People's Republic of Bangladesh



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গণপ্রজাতন্ত্রী বাংলাদেশ সরকার



## Message

Improving Nutrition in Bangladesh is essential to the Country's progress. Despite major accomplishment in reducing child mortality and maternal mortality malnutrition remains a challenge in Bangladesh. In order to address malnutrition, Ministry of Health and Family Welfare has designed to mainstream nutrition services through preventive and curative services of Directorate General of Health Services (DGHS), Directorate General of Family Planning (DGFP) and Community Clinic.

This 'National Guidelines for Community based Management of Acute Malnutrition (CMAM)' aims to manage maximum number of children with acute malnutrition without complications through providing services near to the community at decentralized outreach sites including community clinic, outreach sites, NGO and other health outreach sites.

I thank Institute of Public Health Nutrition (IPHN) for undertaking the initiative for revising this very important guideline in consultation with concern departments, stakeholders and development partners. I appreciate the coordinated and collective effort to reach the vulnerable children in our country and to tackle the acute malnutrition in the community.

Joy Bangla, Joy Bangabandhu

Long live Bangladesh.

*Zahid Maleque*  
(Zahid Maleque, MP)

# Message

Bangladesh has achieved considerable success in nutrition which has been highly appreciated in the international community. But still we have to go far and attain the reduction of wasting and acute malnutrition rates considerably.

Currently there is no specific strategy is being followed up in Bangladesh for the management of children with acute malnutrition at the community level. I am very delighted to let all know that, the Institute of Public Health Nutrition has revised “National Guidelines for Community based Management of Acute Malnutrition (CMAM)”.



This guideline aims to provide practical and easy to follow guidance based on WHO recommendations. I hope, by using this guideline community health service provider will be able to manage children with acute malnutrition at community clinics and health outreach sites. This CMAM approach will also enable community health workers and volunteers to identify the children with acute malnutrition and initiate treatment by referring before they become seriously ill.

I appreciate the contributions rendered by the members of technical group and development partners particularly WHO, UNICEF, ICDDR, B and Save the Children to develop this guideline

**Mr. Sirajul Haque Khan**

Secretary (Health Services Division)  
Ministry of Health and Family Welfare  
Government of People's Republic of Bangladesh

## Message

Bangladesh made impressive progress with under nutrition and achieved the MDG goals for undernourishment and underweight children ahead of schedule. Ministry of Health and Family Welfare is fully committed to provide quality health services at facility and community as well.

Despite of our national and collective effort, malnutrition is a long standing problem in our country. Acute malnutrition has clear impacts on mortality and morbidity in young children in Bangladesh. It is estimated that 2.2 million children are suffering from acute malnutrition in our country. Unless were able to address the acute malnutrition successfully it will lead our children to poor health, increase the risk of infection and put our children in a higher risk of mortality.

I appreciate the initiative of Institute of Public Health Nutrition (IPHN) to revise the National Guidelines for Community based Management of Acute Malnutrition (CMAM) for management of children with acute malnutrition at community level. It has been designed to reach the maximum number of children, detect the children with acute malnutrition at earliest, reduce the incidence of acute malnutrition, and improve public health in a sustainable manner.

We are grateful to all valuable members including academics, scientists, pediatricians, obstetricians, clinicians, public health experts, nutritionist, officers from DGHS, DGFP and CBHC, and development partners who contributed in developing the “National Guidelines for Community based Management of Acute Malnutrition (CMAM)”. This is my firm believe that, by strengthening the management and treatment of acute malnutrition as per standard guideline we will be able to make progress towards meeting sustainable development goals and targets mentioned in currently developed National Plan of Action on Nutrition.



A handwritten signature in black ink, appearing to read 'Roxanan Quader'.

**Ms. Roxanan Quader**

Additional Secretary (PH & WH), Health Services Division  
Ministry of Health and Family Welfare  
Government of People's Republic of Bangladesh

# Message

The Government of Bangladesh has planned to accelerate the progress in reducing the high rates of maternal and child under-nutrition by mainstreaming of nutrition interventions into health (DGHS) and family planning (DGFP) services, scaling-up the provision of area-based community nutrition. But currently, ongoing national programs (such as the National Nutrition Program) do not include an effective mechanism of identifying or treating young children who suffer from acute malnutrition at the community level.



Acute malnutrition increases the risk of stunted growth, impaired cognitive development and non-communicable diseases in adulthood; this also increases the risk of child deaths from infectious diseases such as diarrhea, pneumonia and measles. It has been documented that, when children with acute malnutrition are diagnosed and treated by community health workers; a very high proportion of malnourished children can access care and they are very likely to recover. High recovery rate and low mortality are the main outcome measures in this case.

Development of “National Guidelines for Community based Management of Acute Malnutrition (CMAM)” is a timely and effective tool to manage severely malnourished children in the community at near to their household. I hope this document will be extremely helpful to reach the vulnerable children in the community.

I congratulate Institute of Public Health Nutrition (IPHN), MoHFW, DGFP and our development partners for their supports to revise the “National Guidelines for Community based Management of Acute Malnutrition (CMAM)” which will also contribute in improving other nutrition indicators.



**Prof. Dr Abul Kalam Azad**

Director General of health services  
Ministry of Health and Family Welfare  
Government of People’s Republic of Bangladesh



## Acknowledgement

In Bangladesh preventing all forms of malnutrition remains the priority. In our country acute malnutrition contributes to the overall disease burden, since it affects many children. Our existing prevention programs for acute malnutrition in the community level are imperfect. Hence community management of acute malnutrition is very much needed as “safety nets” in parallel with other prevention programs.



The community-based approach involves timely detection of acute malnutrition in the community and provision of treatment for those without medical complications with therapeutic foods or other nutrient dense foods at home. It can be implemented at a large scale, address greater number of malnourished children and prevent the deaths of thousands of children. In our country it is very much needed as facility based approach alone is not enough to address all these children.

‘National Guidelines for Community based Management of Acute Malnutrition (CMAM)’ has been developed in the context of 4th Health Nutrition and Population Sector Program (HNPS) and National Plan of action on Nutrition (NPAN). This guideline focuses on the integration of the management of acute malnutrition into ongoing routine health services for children 0-59 months which is also usable in emergency programming. This CMAM guideline aims to manage and provide services at the community at decentralized outreach sites including community clinics, government and NGO health outreach sites. District, sub district level, community health workforce and volunteer will be trained and a national training guideline will be developed in conjunction with the “National Guidelines for Community Based Management of Acute Malnutrition (CMAM)” and National Guideline for the Facility based Management of Children with Severe Acute Malnutrition in Bangladesh

We are thankful to the Directorate General of Health Services, Ministry of Health and Family Welfare and we gratefully convey our acknowledgement to the contributions, CMAM technical working group and other important stakeholders. Institute of Public Health Nutrition acknowledge the support and cooperation received from all development partners, particularly WHO, UNICEF, ICDDR,B and Save the Children, other members of different departments of Ministry of Health and Family Welfare, academics, scientists, clinicians, public health experts and nutritionists.

I firmly believe that, together we will be able to contribute to reduction in under five child morbidity and mortality in Bangladesh.

Dr. ABM Muzharul Islam  
Director, Institute of Public Health Nutrition (IPHN), and  
Line Director, National Nutrition Services  
Ministry of Health and Family Welfare  
Government of People’s Republic of Bangladesh





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## Abbreviations

<b>CHW</b>	Community Health Worker
<b>CMAM</b>	Community Management of Acute Malnutrition
<b>CMC</b>	Child Monitoring Card
<b>CSB</b>	Corn Soy Blend
<b>CV</b>	Community Volunteer
<b>GMP</b>	Growth Monitoring and Promotion
<b>IMCI</b>	Integrated Management of Childhood Illness
<b>MAM</b>	Moderate Acute Malnutrition
<b>MUAC</b>	Mid Upper Arm Circumference
<b>NM</b>	Nutritional Management
<b>PLW</b>	Pregnant and Lactating Women
<b>SAM</b>	Severe Acute Malnutrition
<b>UHC</b>	Upazila Health Complex
<b>WSB</b>	Wheat Soy Blend

## Key terms

### Acute malnutrition

MUAC < 12.5 cm and/or bipedal oedema  
SAM= MUAC < 11.5cm and/or bipedal oedema  
MAM= MUAC 11.5cm <12.5cm

### Caregiver

Mother or individual with responsibility for caring the child with SAM or MAM

### Community outreach activities

Promotion of appropriate IYCF practices, identification, referral, care and follow up of acutely malnourished children and pregnant & lactating women (PLW) conducted by community health workers and volunteers. Community outreach activity links between prevention and treatment

### Community based management of SAM

Outreach activities and outpatient care for SAM children without complications, and inpatient care for SAM children with complications

### Community based management of MAM

Outreach activities and outpatient care for MAM children. Acutely malnourished PLW (MUAC <21cm) may also be included in the outpatient care

### Community Health Worker

Conducts community outreach activities and may also treat SAM and MAM directly in the community at household level or outpatient centers/community outreach sites. Health Assistant (HA), Family Welfare Assistant (FWA), Community Nutrition Worker, Community Health Care Provider (CHCP), Community Skilled Birth Attendant (CSBA) and NGO Community Health Workers, Community Nutrition Workers and community volunteers

### Inpatient care

Facility based care at the UHC or hospital for children with SAM with complications



<p><b>Management for MAM</b></p>	<p>Energy and nutrient dense family food for management of MAM providing at least 700-1000kcal/child/day with 25%-30% energy from fat and 10%-12% energy from protein additional to home food.</p>
<p><b>Nutritional Management (NM) for SAM without complications</b></p>	<p>A therapeutic food equivalent to F100 and providing 175-200kcal/kg/day which is recommended by the World Health Organization (WHO) for the management of SAM</p> <p>Referral to higher center for facility based management of SAM according to national protocol.</p> <p>In case of refused referral, mothers and caregivers will be advised on appropriate IYCF feeding recommendations of family diet up to 2 years of age with multiple micronutrients and IMCI feeding recommendations of family diet after two years of age</p>
<p><b>Outpatient care</b></p>	<p>Nutritional management of children with SAM without complications at an outpatient site (or community outreach site). Children with MAM can also be treated at an outpatient site (or community outreach site). Acutely malnourished PLW (MUAC &lt;21cm) may be included</p>
<p><b>SAM with complications</b></p>	<p>Child with SAM who has poor appetite/unable to eat and/or bipedal oedema and/or medical complications as per national IMCI protocol and who requires treatment in a facility</p>
<p><b>SAM without complications</b></p>	<p>Child with SAM who has good appetite, no bipedal oedema and does not have medical complications, may be treated in the community if there is a provision of such</p>

**Service provider**

Provider of care for acutely malnourished children and PLW at an outpatient site (or outreach site). This includes any of the following: CommunityHealth Care Provider (CHCP), Family Welfare Visitor (FWV), Sub Assistant Community Medical office (SACMO), Medical Assistant (MA), and NGO health or nutrition worker



# 1. Introduction

In Bangladesh, child and maternal undernutrition is a significant public health problem. In children under five years of age, 36% are stunted and 14 % are wasted (acutely malnourished), of which 3.1% are suffering from severe acute malnutrition<sup>1</sup> (SAM) - severely wasted or has bipedal oedema). Acute malnutrition (wasting or bipedal oedema) is a serious issue which impacts on mortality and morbidity in young children. In Bangladesh, it is estimated that 2.2 million children are suffering from acute malnutrition. Of these, more than half a million children under five have SAM.<sup>2</sup>

Traditionally children suffering from severe acute malnutrition (SAM) have been managed in a health facility through inpatient care. This requires the child and mother/caregiver must stay at the health facility for several weeks. This poses difficulties for most families. As a result few children with SAM complete treatment and default rates are very high and coverage is very low.

Treating large numbers of children with SAM at the facility is not feasible or desirable and is costly. Targeting of large numbers of acutely malnourished children at the community level through decentralized services is essential in order to reach the maximum number of children. Simple case detection tools can be used to identify cases and refer children for treatment before complications arise. Evidence has shown that when children are identified early, more than 85% of children with SAM do not have medical complications and can be effectively treated at the community level and do not need to go to a facility. Children with SAM without complications can be treated at an outpatient site (or outreach site) in the community or directly at household level by a trained community health worker (CHW). These children receive specific nutritional treatment and routine medical care every week until meets the discharge criteria.

A simple tool (classification of SAM) is used to distinguish cases of SAM with complications. These cases are transferred to inpatient care at a health facility and are stabilized. This takes about 4-7 days. Once stabilized, children can continue their treatment in the community.<sup>3</sup>

No specific strategy exists in Bangladesh for the management of children with acute malnutrition (MAM and SAM) in the community. Addressing acute malnutrition as soon as it arises will bring down the number of new cases of MAM and SAM. Children with SAM and MAM without complications can be treated at the same outpatient site (or outreach site) in the community. A program which combines community outreach activities, inpatient care for SAM with complications, outpatient care for SAM without complications and children with MAM is known as Community based Management of Acute Malnutrition (CMAM) program.

Community outreach activities to promote and support appropriate IYCF practices, identify children with acute malnutrition in the community and at household level, referral to appropriate treatment and follow up at home.

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<sup>1</sup>National Institute of Population Research and Training (NIPORT), Mitra and Associates, and ICF International.2015. *Bangladesh Demographic and Health Survey 2014: Key Indicators*.

<sup>2</sup>WFP/UNICEF/IPHN (2009) Household Food Security and Nutrition Assessment in Bangladesh (2009)

<sup>3</sup>WHO/WFP/UNSCN/UNICEF. Community Based Management of SAM. Joint Statement 2007





The management of SAM includes:

- ☞ Management of children with SAM without complications in an outpatient (or outreach site) care.
- ☞ Referral of children with SAM with complications to inpatient care.

The management of children with moderate acute malnutrition (MAM) and acutely malnourished pregnant and lactating women with infants less than 6 months (PLW).

Key protocols are provided in the annexes. Medical protocols are based on current national policy and protocols. This guideline is intended to be a reference manual for medical staff, health workers and CHWs.

## 1.1 How to use these guidelines

The guidelines provide clear step by step actions for the community based management of acute malnutrition. This guideline complements the existing National Guidelines for the Facility Based Management of Children with Severe Acute Malnutrition in Bangladesh (2017), which focuses on the integration of the management of acute malnutrition into ongoing routine health services for children 6-59 months. This guideline can also be used in emergency programming. This guideline should be used for the implementation of any of the CMAM components.

## 1.2 Who should use these guidelines?

The guidelines should be used by:

- ☞ CHWs responsible for conducting community outreach activities including appropriate IYCF practices promotion and support, active case finding, referral from the community and follow up.
- ☞ Medical staff, and CHWs responsible for the direct care and treatment of children with acute malnutrition.
- ☞ Policy makers and program managers responsible for the management of children and PLW with acute malnutrition.
- ☞ Supervisors responsible for monitoring and reporting on any component of CMAM.

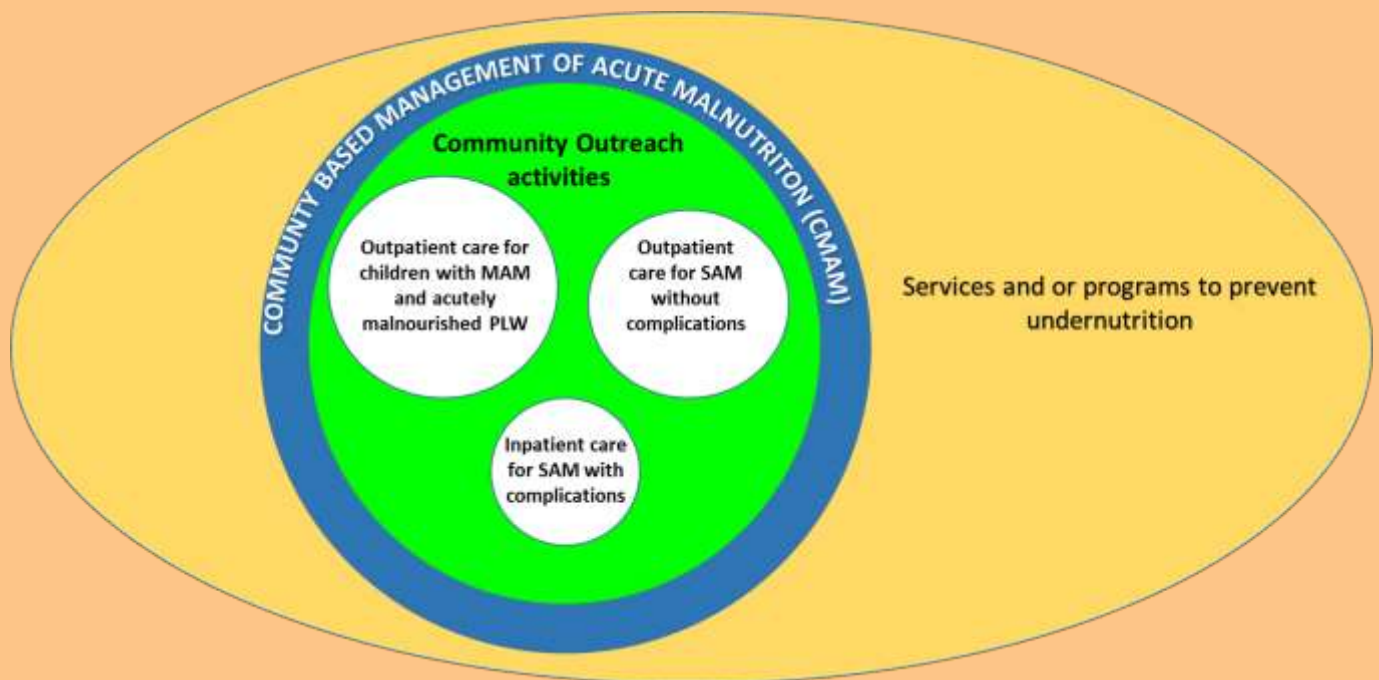
## 2. Community based management of acute malnutrition (CMAM)

### 2.1 The components of CMAM

The CMAM approach consists of four components:

- ☞ Community outreach activities.
- ☞ Community based management of children with SAM without complications.
- ☞ Inpatient care of children with SAM and with complications until stabilized.
- ☞ Community based management of children with MAM.

Community based management of acutely malnourished pregnant and lactating women (PLW) with infants less than 6 months.



## Acute Malnutrition

### Severe acute malnutrition (SAM)

### Moderate acute malnutrition (MAM)

#### **SAM With Complications** **INPATIENT CARE**

Treatment comprises first 7 steps of the National Guideline for Facility Based Management of Children with Acute Malnutrition (stabilization phase) When completed, the child is transferred to community based care.

#### **SAM Without Complications** **OUTPATIENT CARE**

Children with SAM without complications are given Nutritional Management (NM)\* and routine medicines at an outpatient site or directly in the community

#### **MAM - PLW** **OUTPATIENT CARE**

Children with MAM are managed\*\* and provide routine medicines an outpatient site or directly in the community. Malnourished PLW can be included.

#### **Community Outreach Activities**

Identification of acutely malnourished children, referral to Outpatient site for care, follow up and prevention

## Components of CMAM

- ▶ **Nutritional Management (NM)\* for SAM without complications:**
- ▶ A therapeutic food equivalent to F100 and providing 175-200kcal/kg/day which is recommended by the World Health Organization (WHO) for the management of SAM
- ▶ Referral to higher center for facility-based management of SAM according to national protocol.

▶ **Management\*\* for children with MAM:**

- ▶ IYCF feeding recommendation of Family diet up to 2yrs of age with MN
- Children with MAM living in extremely food insecure conditions where the caregivers may not be able to provide the additional food will require support for ensuring intake of 700-1000 Kcal/child/day with 25-30% of energy from fat and 10-12% of energy from protein.

**Community outreach activities:** Children with acute malnutrition will be identified in the community and at household level using mid upper arm circumference (MUAC) tapes and simple techniques to identify nutritional oedema. Caregivers of children with SAM will be given a referral slip and asked to go to the outpatient site on a certain day. Children with MAM and acutely malnourished PLW may also be included in a community based program. Some children with SAM will require follow up at home. CHWs follow up with children who are absent, who have defaulted or have other problems with their treatment and recovery. CHWs will also promote and support appropriate IYCF practices during screening of acute malnutrition among children 6-59 months and follow up visits at household level.

**Community based management of SAM without complications:** Children with (SAM) WITH appetite and WITHOUT complications will be given Nutritional Management (NM) and routine medicines. The children and their caregivers will come to a designated outpatient site every week for a medical check-up and to receive Nutritional Management. The management of children with SAM at the outpatient site is the responsibility of a designated service provider. In some cases a trained CHW will directly manage the child at the community level without referral to a designated outpatient site.

***Where there is no community based management of SAM, children will be treated according to the National Guidelines for the Management of Children with SAM in Bangladesh.***

**Inpatient care for SAM with complications:** Children with SAM who do not have appetite and/or WITH complications and severely malnourished infants less than 6 months will be treated in inpatient care until stabilized. Inpatient care for the SAM child with complications will follow the first seven steps of the National Guideline for the Management of **Children with SAM** in Bangladesh. Wherever possible, these children will be transferred to an outpatient site once they are stabilized.

**Community based management of MAM and PLW:** Children with MAM may be managed at the community level using energy and nutrient dense local foods at the household level. Acutely

malnourished PLW with infants less than 6 months can also be included in a community based program where resources and capacity are sufficient.

## 2.2. Enrollment and discharge criteria for community based management of SAM, MAM and acutely malnourished PLW

Enrollment Criteria		
<b>Inpatient care</b>	<b>Community based management (outpatient Care)</b>	<b>Community based management (outpatient care)</b>
SAM with complications (children 6 - 59 months) AND Infant <6 months	SAM without complications (children 6-59 months)	MAM (children 6-59 months) and acutely malnourished PLW

<p>➤ Bipedal oedema (any grade)</p> <p><b>OR</b></p> <p>➤ MUAC &lt;115 mm with any grade of oedema</p> <p><b>OR</b></p> <p>➤ MUAC &lt;115mm <b>WITH any of the following complications:</b></p> <ul style="list-style-type: none"> <li>• No appetite/unable to eat</li> <li>• Persistent vomiting (≥3 per hour)</li> <li>• Fever &gt;39.°c or 102.2° F (axillary temperature)</li> <li>• Hypothermia &lt; 35.°c or 95°F(axillary temperature)</li> <li>• Fastbreathing as per IMCI guidelines for age: <ul style="list-style-type: none"> <li>≥60/min for children &lt;2 months</li> <li>≥50/min for children 2-12 months</li> <li>≥40/min for children 12-59 months</li> </ul> </li> </ul> <p>➤ Dehydration based primarily on a recent history of diarrhoea, vomiting, fever or sweating, not passing urine for last 12 hours and on recent appearance of clinical signs of dehydration as reported by the caregiver</p>	<p>➤ MUAC&lt;115 mm</p> <p><b>AND ALL OF FOLLOWING:</b></p> <p>➤ Presence of appetite</p> <p>➤ Without any medical complications as per national IMCI protocol</p>	<p>➤ MUAC 115mm - &lt;125mm</p> <p><b>AND</b></p> <p>No bipedal oedema</p> <p><b>AND ALL OF FOLLOWING:</b></p> <p>➤ Presence of appetite</p> <p>➤ without medical complications as per national IMCI protocol</p>
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### Enrollment Criteria

Inpatient care	Community based management (outpatient Care)	Community based management (outpatient care)
<p>SAM with complications (children 6 - 59 months)</p> <p>➤ Severely pale (severe palmer pallor) with or without difficulty breathing</p>	<p>SAM without complications (children 6-59 months)</p>	<p>MAM (children 6-59 months) and acutely malnourished PLW</p> <p>➤ Pregnant women MUAC &lt;210 mm</p>

<ul style="list-style-type: none"> <li>➤ Very weak, apathetic, unconscious, fitting/ convulsions</li> <li>➤ Conditions requiring IV infusion or NG tube feeding</li> </ul> <p><b>Infants &lt; 6 months</b></p> <p>Severe malnourished Infants &lt;6 months who are visibly wasted and or unable to breastfeed</p> <ul style="list-style-type: none"> <li>➤ Weight for length less than -3 Z-score or,</li> <li>➤ Presence of bipedal oedema</li> </ul>		<ul style="list-style-type: none"> <li>➤ Lactating women with Infant &lt; 6 months</li> </ul> <p><b>AND</b></p> <p>MUAC &lt;210mm</p>
<b>Discharge Criteria</b>		
<p><b>Transfer to outpatient site (6-59 months children) when:</b></p> <ul style="list-style-type: none"> <li>➤ Appetite returned</li> <li>➤ Medical complications controlled/resolved</li> <li>➤ Oedema resolved</li> </ul>	<ul style="list-style-type: none"> <li>➤ MUAC <math>\geq</math>115mm for two consecutive visits</li> </ul> <p><b>AND</b></p> <ul style="list-style-type: none"> <li>➤ No sign of severe illness</li> <li>➤ <b>Transfer to community based management of MAM where possible</b></li> </ul>	<p><b><u>Children 6-59 months</u></b></p> <p>MUAC <math>\geq</math>125mm for two consecutive visits</p> <p><b><u>Pregnant and lactating women</u></b></p> <ul style="list-style-type: none"> <li>➤ MUAC <math>\geq</math>210mm</li> </ul> <p><b>AND</b></p> <ul style="list-style-type: none"> <li>➤ Infant completed 6 months</li> </ul>

## 3. Community outreach activities

Community outreach activities are promotion and support of appropriate IYCF practices, identification, care, referral, and follow up of children with acute malnutrition and acutely malnourished PLW. It links between prevention and treatment. It is conducted by community health workers and volunteers.

### **Protocols and references for this section**

[Annex 1: Measuring malnutrition](#)

[Annex 2: Referral slip from CHW to outpatient site](#) [Annex 3: Checklist for home visit](#)

### 3.1 The purpose of community outreach activities

The purposes of community outreach activities are to:

- ☞ Promote and support appropriate IYCF practices
- ☞ Promote understanding about acute malnutrition
- ☞ Increase program coverage
- ☞ Find children with SAM
- ☞ Find children with MAM if these children are to be included in community based program
- ☞ Find acutely malnourished PLW if they are to be included in a community based program
- ☞ Follow up children who have may be absent or defaulted and those who have problems
- ☞ Understand reasons for absence and default so that they can be addressed
- ☞ Promote strong links between prevention and treatment so that the underlying causes can also be addressed

### 3.2 Basic requirements for outreach activities

#### **WHO will conduct the outreach activities?**

Community outreach activities will be conducted by CHWs. This includes: Health Assistant (HA), Family Welfare Assistant (FWA), Community Health Care Provider (CHCP), NGO Community Health Workers, Community Nutrition Workers (CNW) and community volunteers

#### **WHERE the outreach activities will be conducted?**



Community outreach activities will take place at the community level and at the household level. CHWs will actively identify children with SAM and MAM during ongoing community activities such as growth monitoring and promotion (GMP), at an EPI site during routine vaccination or campaigns, at community clinic and during routine health visits for the well and sick children. CHWs will also find and identify children with acute malnutrition in the household. This is called 'active case finding.' CHWs will refer children with SAM, MAM and acutely malnourished PLW to a designated outpatient site (community outreach site) on a certain day.

In some cases the same CHW who identifies the child or PLW will also directly provide nutritional and medical treatment without any referral to a designated site. In this case, the CHW must be specifically trained to manage children with acute malnutrition.

### **WHEN the community outreach activities will be available?**

Community outreach activities are ongoing. Meetings with key community leaders and with the caregivers of children in the program can be held periodically to raise awareness about the community based management of acute malnutrition and to investigate any issues such as high default.

## **3.3 Basic supplies for community outreach activities**

- 🏠 MUAC tapes
- 🏠 Referral slips in duplicate copy
- 🏠 Home visit form and checklist
- 🏠 Key messages for caregivers of children with SAM and MAM
- 🏠 IEC materials on appropriate IYCF practices for prevention of acute malnutrition

## **3.4 Community dialogue**

It is important to directly engage the community from the outset. This can be done initially through meetings with community and religious leaders. Other key community members should also be included. Mothers of young children should be included so that there is full representation of all those concerned with the health of young children.

- 🏠 Engage in discussion with the community to talk about existing IYCF practices, the problem of malnutrition, causes and possible solutions.
- 🏠 Discuss the community based management of SAM and MAM and how it will work in practice.

- ☞ Agree on relevant groups, organizations, structures to be involved in the program. This may include the recruitment of volunteers/community nutrition workers to help with case finding and follow up
- ☞ Develop clear roles and responsibilities of service providers and community.

### 3.5 Trained CHWs in core functions

Community Health Workers (CHWs) must be trained to identify, refer and follow up children with SAM and MAM and on promotion & support of appropriate IYCF practices. Training can be done in three days. Frequent refresher training will be required. Training should include:

- ☞ Appropriate IYCF practices
- ☞ The purpose of community based management of SAM and MAM
- ☞ Basic information on the causes, identification and treatment of malnutrition
- ☞ Practice in identification of oedema and wasting, use of MUAC tape
- ☞ Case finding
- ☞ Case referral
- ☞ Health, nutrition and hygiene education (prevention)

### 3.6 Case finding and referral

In order to reach as many malnourished children as possible, CHWs must actively identify children who need care and refer them for treatment. Children can be identified through:

- ☞ House to house visits
- ☞ Growth monitoring sessions and screening
- ☞ During routine health visits for the sick and well child under five
- ☞ At EPI sites during routine vaccination days and campaigns
- ☞ Screening at community meetings
- ☞ Medical check-up at Upazila Health Complex/Union Health & Family Welfare Center/Community Clinic or other health facility

Children with acute malnutrition are identified as malnourished using MUAC tape and check for oedema (**Annex 1**). The criteria used to identify children in the community are the same criteria used for enrollment in CMAM program (see table 1). A simple **Referral Slip from CHW to Outpatient Site (Community outreach site) (Annex 2)** is used to refer children to an

outpatient site (community outreach site). This should be done in duplicate copy so that one copy is given to the caregiver and the other is kept for the record by the CHW.

It is important to include mothers and caregivers of children with SAM and MAM as community motivators. Mothers who have seen their malnourished children recover are very motivated and will encourage others to seek treatment and to ensure preventive measures to put into practice. Some mothers/caregivers will emerge as leaders and can play an active role in case finding. Mother to mother support groups should be encouraged wherever possible in the community.

**Table 1: Identification and referral of children with acute malnutrition and acutely malnourished PLW at community outpatient site**

Target Group	Finding	Action
6-59 months	<b>MUAC &lt; 115mm (RED)</b>	<ul style="list-style-type: none"> <li>☞ Refer to outpatient site</li> <li><b>CHW providing direct treatment</b></li> <li>☞ Determine complications</li> <li>⌘ Refer to inpatient care if SAM with complications</li> <li>⌘ Provide nutritional management (NM) and medical care for SAM without complications</li> </ul>
6-59 months	<b>Bi pedal oedema (any grade)</b>	<ul style="list-style-type: none"> <li>☞ Refer to outpatient site</li> <li><b>CHW providing direct treatment</b></li> <li>☞ Refer to inpatient care</li> </ul>
6-59 months	<b>MUAC 115mm - &lt; 125mm (YELLOW)</b>	<ul style="list-style-type: none"> <li>☞ Refer to outpatient site</li> <li><b>CHW providing direct treatment</b></li> <li>☞ Management of MAM and medical care for MAM/or practical guidance on use of local foods</li> </ul>

Pregnant and lactating women	<b>MUAC &lt;210 mm</b>	<ul style="list-style-type: none"> <li>☞ Refer to outpatient site</li> </ul> <p><b>CHW providing direct treatment</b></p> <ul style="list-style-type: none"> <li>☞ Provide nutritional management (NM) and medical care for/or practical guidance on use of local foods</li> </ul>
Infants < 6months*	<ul style="list-style-type: none"> <li>☉ <b>Visibly wasted. Weight for length less than -3 Z-score</b></li> <li>or</li> <li>☉ <b>Infants with bipedaloedema</b></li> <li>☉ <b>Infants too weak or feeble to suckle with failure to gain weight</b></li> </ul>	<ul style="list-style-type: none"> <li>☞ Refer to outpatient site for evaluation (if available)</li> </ul> <p><b>CHW providing direct treatment</b></p> <ul style="list-style-type: none"> <li>☞ Refer to inpatient care</li> </ul>

### 3.7 Role of the CHW in practice

In practice the Community Health Worker perform different functions depending on the delivery mechanism:

☞ **Identify and refer to an outpatient site (outreach site) and follow up:**

Identify children with acute malnutrition and acutely malnourished PLW and refer them to a specific outpatient site (outreach site) using the referral slip. The CHW will then be present at the outpatient site and will assist the designated community outreach health worker to manage cases at the site. The CHW will then follow up cases that are absent, defaulted or require follow up as determined by the designated community health worker.

☞ **Identify and manage children with SAM and MAM without complications and acutely malnourished PLW (without complication) directly in the community**

In addition to identifying cases, the CHW will directly provide nutritional management and routine medicines. This delivery mechanism requires one CHW for an average of 200 households to ensure a manageable caseload. CHWs providing nutritional management and medical treatment for SAM and management of MAM require specific training.

### 3.8 Follow-up visits

CHWs play an important role in tracing children who are absent or have defaulted and encouraging the caregivers to return. Children who have static weight or have lost weight also require follow up at home. In order for follow up to be effective, there must be good linkage between the outpatient site and the community health workers and volunteers. CHWs should be present at the outpatient site in order to:

- ✦ Assist the Health Worker at the outpatient site/outreach site

Follow up children who are absent or defaulted or if there are other reasons for follow up as determined by the health care provider

Ensure children referred for further care/other programs

During home visits, the CHW can use a check list and complete a simple **Home Visit Form (Annex 3)**. The form should be completed in duplicate. One copy will be preserved by caregiver of SAM/MAM child and another copy with the health worker.

## 4. Community based management of Severe Acute Malnutrition (SAM)

### Protocols and reference sheets for this section

- Annex 1: Measuring Malnutrition
- Annex 2: Referral slips from CHW to outpatient site
- Annex 3: Home visit form and checklist
- Annex 4: Classification of Severe Acute Malnutrition (SAM)
- Annex 5: Child Monitoring Card for SAM
  
- Annex 6: Action protocol to determine SAM with complications
- Annex 7: Transfer slip from outpatient to inpatient care and from inpatient to outpatient
- Annex 8: Key messages for caregivers of children with SAM
- Annex 9: Routine medical protocol for children (6-59 months) with SAM without complications
  
- Annex 10: IYCF feeding recommendations of family diet up to 2 years of age and IMCI feeding recommendations of family diet after two years of age

### 4.1 The purpose of community based management of SAM

The purpose of community based management of SAM is to decentralize the management of SAM to as many communities as possible so that a maximum number of children can be reached. Once children are identified with SAM, the child should be checked to determine if there are any complications according to the **Classification of SAM (Annex 4)**. Cases of SAM with complications will be referred to inpatient care at the UHC. Once stabilized, they will then continue treatment in the community based program/outpatient care if available. The majority of children with SAM do not have complications. These children can be effectively treated at home without the need for referral to inpatient care.

## 4.2 Delivery mechanisms in practice

Children will be screened and identified as SAM through community outreach activities. There are two possible options

- ☞ Referral to an outpatient site
- ☞ Direct nutritional management by a CHW at the community outreach site of household level

### **Outpatient site/ community outreach site:**

An outpatient site/community outreach site will be managed by a service provider (either a trained community health worker or skilled health worker). Children identified as SAM during community outreach activities will be given a referral slip and will attend the outpatient site on a specific day. The service provider at the outpatient site will determine if the child has complications that require transfer to inpatient care. Children with SAM without complications will receive nutritional management and routine medical care every week on a specific day until discharge. CHWs and community volunteers will be present at the outpatient site/community outreach site and will follow up cases that are absent, defaulted or require follow up as determined by the treatment provider.

### **Direct management of SAM at the community/household level by a trained CHW:**

In addition to identifying cases, a trained CHW can manage children with SAM at the household level without any need for referral to an outpatient site/community outreach site. The CHW will determine if a child has complications that require transfer to inpatient care. Children with SAM without complications will receive nutritional management and routine medical care every week on a specific day until discharge.

## 4.3 Basic requirements for community based management of SAM

### **WHO will manage community based SAM:**

The outpatient site/community outreach site is managed by a designated service provider. This may be a skilled trained health worker or a trained CHW.

Direct management of SAM cases in the community can be managed by a trained CHW. This delivery mechanism ideally requires one trained dedicated CHW for an average of 200 households to ensure a manageable caseload.

**WHERE the community based SAM will be managed:**

An outpatient site/community outreach sites can be operated at any of the following: Satellite/Outreach Clinic, Community Clinic, Union Health and Family Welfare Centre (UHFWC), Union Sub-Centre, UHC outdoor facility, NGO static clinic, mobile clinic, outdoor facilities of secondary and tertiary hospitals and other community based outreach sites.

The outpatient site/ outreach site should be as close as possible to the community in order to avoid issues of drop out. In some cases, when children start to improve, mothers/caregivers may not be motivated to attend weekly visits. Follow up of children who are absent or default from the outpatient site/community outreach site is therefore essential.

Direct management of SAM at community/household level takes place in the community often at the home of the CHW and sometimes at a certain location in the community which is immediately accessible such as an EPI site or NGO operation community based sites.

**WHEN the services for SAM management will be provided at community outreach site:**

Community based management of SAM will be available on weekly basis. This will usually take place on a designated day each week. Weekly visits continue on a weekly basis until the child is ready for discharge. An outpatient site may operate every two weeks when: Poor access or long distances to the outpatient site makes it difficult for caregivers to attend weekly and/or the caseload of children is very large.



## 4.4 Basic supplies for management of SAM

Basic equipment	Basic supplies
<ul style="list-style-type: none"> <li>⌘ MUAC tapes</li> <li>⌘ Weighing scales</li> <li>⌘ Thermometer</li> <li>⌘ Watch/ARI Timer</li> <li>⌘ Scissors</li> <li>⌘ Safe water for drinking (jug and cups)</li> <li>⌘ Water and soap for handwashing</li> </ul>	<ul style="list-style-type: none"> <li>⌘ Child Monitoring Cards</li> <li>⌘ Management Protocols</li> <li>⌘ Transfer slips to inpatient care</li> <li>⌘ List of inpatient treatment sites</li> <li>⌘ List of other outpatient sites in the area</li> <li>⌘ Essential medicines as required in the routine medical protocol</li> <li>⌘ Nutritional Management (NM) supplies</li> <li>⌘ IEC materials on IYCF</li> </ul>

## 4.5 Nutritional Management for SAM without complications

Children should be given a suitable local Nutritional Management (NM) & routine medicines to manage SAM at an outpatient community-based center with weekly follow up.

If NM is available, provide government approved energy-dense mineral vitamin enriched nutritious food produced locally equivalent to F100 and providing 175-200 kcal/day.

Until NM is not available, children with SAM without complications should be referred to the nearest inpatient care facility (e.g. UHC, District hospital) and treated according to National Guideline for facility based management of children with severe acute malnutrition.

## 4.6 Enrollment in community based management of SAM

### Target group:

Children with SAM aged 6-59 months who meet the enrollment criteria. All children with SAM with MUAC <11.5 are enrolled in the community based program.

A determination is then made as to whether there are complications that require transfer to inpatient care. Children transferred to inpatient care will return to the outpatient care/community outreach site once stabilized.

### Enrollment criteria for community based management of SAM

Category	Criteria
Children 6-59 months	<ul style="list-style-type: none"> <li>⌘ MUAC &lt;115 mm or 115 mm</li> <li>OR</li> <li>⌘ Bipedal oedema (+) if caregiver refuse to admit the child in the health facility</li> <li><i>(Note: Refer SAM cases with oedema to UHC is the first choice of treatment. If caregiver refuses to admit the child at health facility then provide service at community outreach site)</i></li> <li>AND</li> <li>⌘ Presence of appetite</li> <li>AND</li> <li>⌘ Without medical complications, as per national IMCI protocol</li> </ul>

## 4.7 Enrollment procedure steps

### STEP 1: Measure MUAC, weight and assess for oedema

- ☞ Measure MUAC
- ☞ Check for oedema

- ☞ Measure weight
- ☞ If the child meets the criteria for enrollment, complete the admission section of the **Child Monitoring Card (CMC) (Annex 5)** and assign a card number.
- ☞ For Children admitted with oedema the baseline weight should be taken **AFTER** oedema has disappeared.

### **STEP 2: Assessment**

- ☞ Take a medical and dietary history and record results on the CMC
- ☞ Conduct a physical examination, and record results on the CMC
- ☞ Use the **Action Protocol (Annex 7)** to determine if there are any medical complications
- ☞ If the child has medical complications or oedema of any grade, transfer the child to the nearest inpatient care facility. If caregiver refuses to admit the child inpatient care health facility then provide service at community outreach site. **Go to STEP 4.**
- ☞ If the child has no medical complications. **Go to STEP 3.**

### **STEP 3: Appetite Test**

- ☞ The child's appetite must be assessed to see if the child will eat the nutritional management recommendations necessary for recovery.
- ☞ Ask the caregiver to wash their hands and the child's hands with soap.
- ☞ Ask the mother/caregiver to give available family food/NM to the child and watch to see if the child eats. This is called an "appetite test"
- ☞ If the child is reluctant to eat, the caregiver should move to a quiet and private area to encourage the child to take the family food/NM. This may take up to **45 minutes**. Care must however be taken to ensure the child is not forced to eat.

#### **STEP 4: Decide if the child should be transferred to inpatient care**

Transfer to inpatient care is required according to the Action Protocol when the child:

- ☞ Refuses to eat little amount of food or no appetite
- ☞ **And/or** has any medical complications
- ☞ **And/or** has oedema of any grade
- ☞ Severe malnourished infants < 6 months

If the child meets criteria for transfer to inpatient care:

- ☞ Explain the situation to the caregiver.
- ☞ Advise the caregiver to keep the child warm. If possible give the first antibiotic dose.
- ☞ Complete a **Transfer Slip to Inpatient Care (Annex 8)**. One copy is given to the caregiver and the other is kept in the file. When the child returns from inpatient care, a return transfer slip will be completed by medical staff at the inpatient care health facility.
- ☞ Note the transfer to inpatient care on the CMC and note the date of transfer. File the CMC under “Children transferred to inpatient care

#### **STEP 5: Enrollment and management of children with SAM without complications**

Children may be enrolled if they have appetite, do not have oedema or any medical complications and refuse to go to UHC/hospital for initial phase management.

- ☞ Explain the treatment to the mother/caregiver.
- ☞ Explain how recommended family food/NM should be given using the **Key Messages (Annex 9)**.
- ☞ If the mother is still breastfeeding, advise her to continue breast-feeding. Emphasize that recommended family food/NM is important for the recovery of the child and should not be discontinued.
- ☞ Safe drinking water should be available to the child at all time

- ☞ Give medicines according to the **Routine Medical Protocol (Annex 10)**. First dose of antibiotic should be given on enrollment and the mother shown how to use it.
- ☞ Check immunization status. If required immunizations have not been given, refer the child for immediate immunization.
- ☞ Provide guidance on appropriate IYCF feeding recommendations of family diet up to 2 years with multiple micronutrients and IMCI feeding recommendations of family diet after two years of age /NM according to weight of the child (**Annex 11**)

#### **STEP 6: Make the next appointment**

- ☞ Give the mother/ caregiver an appointment time for the next visit in following week.
- ☞ Complete the CMC and file- in under “Children currently in the outpatient care for SAM.”

### **4.8 Weekly follow up visits until discharge**

Children and their mothers/caregivers will have a weekly appointment at the outpatient site or with the CHW if managed directly at the community level. Every week the child will have a medical check-up and receive NM. The weekly visits are recorded on the follow up section of the CMC. At every visit the following steps should be taken:

#### **STEP 1: Take measurements**

- ☞ Take MUAC, weight and assess for oedema at every visit.

#### **STEP 2: Appetite test and medical check**

- ☞ Appetite test is done at every follow up visit.
- ☞ Conduct the medical check-up and determine if NM has been given, and any illness in the last week. Record this on the CMC.
- ☞ Complete doses of medicines according to the routine medical protocol.

### **STEP 3: Determine the need for transfer to inpatient care or follow up visit at home**

Follow the Action Protocol (**Annex 7**) to determine if there are complications and determine if there is a need to transfer to inpatient care or if follow up by a community health worker or community volunteer is needed at home. Children should be transferred to inpatient care at any time during treatment in the outpatient program according to the Action Protocol if:

- ☞ Medical condition deteriorates
- ☞ Increase in bipedal oedema
- ☞ Weight loss for three consecutive weeks
- ☞ Static weight (no weight gain) after five weeks
- ☞ Target weight has not been reached after 2 months

Children should be followed up at home by a community health worker or community volunteer according to action protocol if:

- ☞ Child has lost weight on two consecutive visits.
- ☞ Weight or medical condition has not improved
- ☞ Child was initially treated in inpatient care.
- ☞ The child has been absent or defaulted
- ☞ There are issues with care and feeding practices at home

The findings of the home visit should be noted on the CMC

### **STEP 4: Provide Nutritional Management**

- ☞ Use the feeding history and weight of child to provide appropriate guidance on NM
- ☞ Provide guidance on appropriate IYCF feeding recommendations of family diet up to 2 years
- ☞ IMCI feeding recommendations of family diet after two years of age /NM according to weight of the
- ☞ Complete the CMC and make an appointment for the next visit.

## 4.9 Messages on prevention of SAM

The management of children with SAM in the community presents a good opportunity for prevention messages and activities. When a child is first enrolled, the key messages about how to provide recommended family food, routine medicines, breast feeding and basic hygiene messages should be clearly understood.

Simple prevention messages can be developed for use at the outpatient site and in the community that complement the key messages and attempt to address some of the underlying reasons for the child becoming malnourished in the first place. It is essential that messages be reinforced by practice. These messages should focus on: basic hygiene such as hand washing, breast feeding, the importance of frequent and active feeding and what local foods to give young children; identifying malnutrition; home based management of diarrhea, acute respiratory tract infection (ARI) and fever and recognizing danger signs.

Before discharge, children should begin to eat high energy nutrient rich local foods including oil and animal products as per standard IYCF recommendations. Community health workers should ensure that the mother/caregiver knows what foods to give the child, how to prepare local foods and how often to feed the child before the child is discharged. In addition to the key messages, four essential messages must be given (and practiced) in a community based program for the prevention of SAM

- ☞ Exclusive breastfeeding until infant is 6 months and continuation of breastfeeding up to two years
- ☞ Introduction of appropriate energy/nutrient dense foods including oil and animal products after completion of 6 months of age; from 181 days
- ☞ Hand-washing with soap before eating and after defecation
- ☞ Recognizing danger signs

## 4.10 Discharge criteria

Children are ready for discharge from outpatient site when the following criteria are met.

Category	Criteria
<b>Recovered</b>	<ul style="list-style-type: none"> <li>⌘ MUAC &gt;115 mm or &gt;115 mm For two consecutive visits (one week apart)</li> </ul> <p><b>And</b></p> <ul style="list-style-type: none"> <li>⌘ No other severe classification (according to IMCI protocol) <ul style="list-style-type: none"> <li>□ any general danger sign</li> <li>□ Chest in-drawing</li> <li>□ Stridor in a calm child</li> </ul> </li> </ul>
<b>Defaulted</b>	Absent for 3 consecutive visits
<b>Died</b>	Died while enrolled in the program
<b>Not recovered/ non-responder*</b>	Has not reached discharge criteria within 3 months of admission

\*Before this time, children should have been followed up at home. Children who have had weight loss for 3 consecutive weeks or have not gained weight for 5 consecutive weeks must be transferred to inpatient care according to the Action Protocol. Children who have not met the discharge criteria after 3 months in the program should be referred to the UHC/District Hospital for medical attention.

## 4.11 Discharge procedure

### Step 1: Determine if child has met discharge criteria

- ☞ Explain to the mother/caregiver that the child is recovered (or if not recovered why s/he is being discharged)
- ☞ Note the final outcome on the CMC card and file the card under “Children discharged, recovered or non-recovered”

### Step 2: Advice to mothers/caregivers

- ☞ Advise the mother/caregiver to take the child to the nearest outpatient site or health facility if the child refuses to eat or has any of the following:



- ⌘ High fever
- ⌘ Frequent watery stools with blood
- ⌘ Diarrhea lasting more than 3 days
- ⌘ Difficult or fast breathing
- ⌘ Vomiting
- ⌘ Development of oedema
- ☞ Counsel the mother/caregiver on appropriate feeding practices and the importance of continued breastfeeding for children less than two years
- ☞ Ensure the caregiver understands how to use any medications that have been given / prescribed
- ☞ Children who have not met the discharge criteria after three months in the outpatient program advised mothers/caregivers to take child to the nearest health facility (UHC/District hospital) for further medical investigations

**Step 3: Include child in community based management of MAM (Where available)**

- ☞ Treatment for MAM may be included at the outpatient site or at the community/household level.
- ☞ Explain to the mother/caregiver that the child will remain in community based program for MAM.
- ☞ If a specific program for MAM is not available, refer children to other ongoing community health and nutrition programs and health education and communication interventions (IEC).



## 5. Community based management of Moderate Acute Malnutrition (MAM)

### Protocols and reference sheets for this section

- Annex 10: Measuring Malnutrition
- Annex 11: IYCF feeding recommendations of family diet up to 2 years of age and IMCI feeding recommendations of family diet after two years of age
- Annex 12: Child Monitoring Card for MAM
- Annex 13: Action protocol for MAM
- Annex 14: Routine medical protocol for MAM
- Annex 15: Energy and nutrients dense local food recipes

### 5.1 The purpose of community based management of MAM

The purpose of the community based management of MAM is to provide decentralized services for as many acute malnourished children as possible. Children aged 6-59 months with MAM can be identified and managed at an outpatient site or directly at the community level by a trained CHW. Children with MAM will receive basic medical treatment and mothers/caregivers counsel on the use of high energy/nutrient dense local foods fortified with micronutrients in the outpatient care.

### 5.2 Delivery mechanisms in practice

Children will be screened and identified as MAM through community outreach activities. There are two possible options

- ☞ Referral to an outpatient site
- ☞ Direct management of MAM by a CHW at the community level

#### **Outpatient site:**

An outpatient site will be managed by a service provider (either a trained community health worker or skilled health worker).

Children identified as MAM during community outreach activities will be given a referral slip and will attend the outpatient site on a specific day and receive guidance on nutritional management and basic medical treatment every two weeks until discharge.

**Direct management of MAM at the community level by a trained CHW:**

In addition to identifying cases, a trained CHW can manage children with MAM at the community level. Mothers/caregivers will receive guidance on food based management and basic medical treatment every two weeks until discharge. The CHW may also manage cases of MAM through specific counseling on the use of energy/nutrient dense local foods fortified with micronutrients.

### **5.3 Basic requirements for community based management of MAM**

**WHO will manage MAM cases:**

The outpatient site is managed by a designated service provider. This may be a skilled trained health worker or a trained CHW.

Direct management of MAM cases in the community can be managed by a trained CHW. This delivery mechanism ideally requires one trained CHW for an average of 200 households to ensure a manageable caseload.

**WHERE the MAM cases will be managed:**

Children with MAM may be managed at an outpatient site

Direct management of MAM at community level takes place in the community often at community outreach site near to the CHW and sometimes at a certain location in the community which is immediately accessible such as an EPI site.

**WHEN the services will be provided:**

The community based management of MAM will be available in every two weeks on a designated day until discharge.

## 5.4 Basic supplies for management of MAM

Basic equipments	Basic supplies
⌘ Weighing scales	⌘ CMC for MAM
⌘ MUAC tapes	⌘ Key messages
⌘ Safe water for drinking (jug and cups)	⌘ Essential medicines
⌘ Water and soap for handwashing	⌘ Nutritional supplement (if available)
	⌘ Materials on use of energy/nutrient dense local foods
	⌘ IEC materials on IYCF

## 5.5 Management of MAM

The management of MAM aims to provide additional energy and nutrient density to the existing home based diet to support catch up growth. This means adding at least 25kcal/kg/day over and above the energy requirements of a well-nourished child. This should be done by encouraging increased intake of home food. The staple cereal (rice) should be fortified with micronutrient powder, and animal source of food (fish, egg, milk etc.) included in the diet. De-worming should be done at least 6 monthly intervals. Inter-current infections should be appropriately treated. Hygiene should be promoted to prevent infection.

Children with MAM living in extremely food insecure conditions where the caregivers may not be able to provide the additional food. The nutritional supplement should ideally provide 700-1000 Kcal/child/day with 25-30% of energy from fat and 10-12% of energy from protein.

## 5.6 Enrollment in community based management of MAM

### Target group:

Children with MAM aged 6-59 months with appetite (ability to eat) and without medical complications who meet the enrollment criteria.

## Enrollment criteria for community based management of MAM

Category	Criteria
Children 6-59 months	<ul style="list-style-type: none"><li>⌘ MUAC <math>\geq 115</math> mm to <math>&lt; 125</math> mm (<math>\geq 115</math> mm to <math>&lt; 125</math> mm)</li><li><b>AND</b></li><li>No bipedal</li><li><b>AND</b></li><li>⌘ Presence of appetite</li><li>Without medical complications as per national IMCI protocol</li></ul>

## 5.7 Enrollment procedure steps

### STEP 1: Measure MUAC, weight and assess oedema

- ⌘ Measure MUAC
- ⌘ Check for oedema
- ⌘ Measure weight
- ⌘ If the child meets the criteria for enrollment, complete the admission section of the [CMC for MAM \(Annex 12\)](#) and assign a registration number.

### STEP 2: Assessment

- ⌘ Complete the enrollment section of the CMC.
- ⌘ Take a history of feeding practice and assess for danger signs according to the Action Protocol for MAM
- ⌘ If any danger sign is present refer the child to the health facility for medical assessment/treatment according to the [Action Protocol for MAM \(Annex 13\)](#).

- ☞ Provide basic medical treatment according to the **Routine Medical Protocol for MAM (Annex 14)**. Children transferred from the outpatient program for SAM should not be given routine medical treatment again.

#### **STEP 4: Counsel on home based diet to support catch up growth or Provide Nutritional Management (NM) if available**

- ☞ Explain to mothers/caregivers the necessity of additional energy and nutrients to support catch up growth of the child and available local food recipes (**Annex 15**)
- ☞ Provide specific messages on home based diet following standard IYCF protocols and or demonstrate the procedures of family food fortification with micronutrient powder

#### **STEP 5: Make the next appointment**

- Give the mother/caregiver an appointment for the next visit after two weeks
- Complete the CMC and file-in under “Children currently in the outpatient care for MAM”

### **5.8 Follow up visits every two weeks until discharge**

Children and their mothers/caregivers will have an appointment every two weeks at the outpatient site or with the CHW if managed directly at the community level. At each visit, the child will be assessed and counseled on the use of energy/nutrition dense local foods.

- ☞ At each visit the MUAC and weight is measured and oedema is assessed.
- ☞ Children with danger signs should be referred to the nearest health facility.
- ☞ ☞ If the child has not gained weight after three two weekly visits or if the child is losing weight refer him/her for a medical checkup at the nearest inpatient care or health facility.
- ☞ Children who are enrolled as MAM and then deteriorate or develop oedema should be transferred to the program for SAM.

## 5.9 Messages on prevention of MAM

Four essential preventive messages must be given (and practiced) in a community based care for the management of MAM.

- ☞ Exclusive breastfeeding (for 6 months) and continue breastfeeding up to two years of age
- ☞ Introduction of appropriate energy and nutrient dense foods, including oil and animal products from 6 months of age (IYCF feeding recommendations of family diet up to 2 years of age and IMCI feeding recommendations of family diet after two years of age (**Annex 11**).
- ☞ Hand-washing with soap before eating and after defecation.
- ☞ Recognizing danger signs

## 5.10 Discharge criteria

Children are ready for discharge when the following criteria are met.

Category	Criteria
<b>Recovered</b>	<ul style="list-style-type: none"><li>⌘ MUAC <math>\geq</math> 125 mm</li></ul> For two consecutive visits (two weeks apart) <b>And</b> <ul style="list-style-type: none"><li>⌘ No other severe classification (according to IMCI protocol)</li><li>⌘ any general danger sign or</li><li>⌘ Chest indrawing</li><li>⌘ Stridor in a calm child</li></ul>
<b>Defaulted</b>	Absent for 2 consecutive visits
<b>Died</b>	Died while enrolled in outpatient program
<b>Non-responder</b>	Child has not reached discharge criteria within 4 months of admission



## 6. Community based management of acutely malnourished Pregnant and Lactating Women (PLW)

### Protocols and reference sheets for this section

- Annex 16: Monitoring card for Pregnant and Lactating Women (PLW)
- Annex 17: Routine medical protocol for acutely malnourished Pregnant and Lactating Women

### 6.1 Enrollment of acutely malnourished pregnant and lactating women (PLW) with infants less than 6 months

Acutely malnourished PLW with infants less than 6 months may be enrolled in an outpatient care where resources permit and capacity is sufficient to manage the caseload. The management of malnourished PLW options are the same as those for children with MAM. PLW attend every two weeks. The following enrollment criteria are used:

#### Enrollment criteria for PLW

Category	Criteria
Pregnant women and lactating women with infants <6 months	MUAC < 210 mm <b>And</b> Have Infant less than 6 months of age

### 6.2 Enrollment procedure for acutely malnourished PLW

#### STEP 1: Measure MUAC and weight.

- ☞ If the woman meets the criteria for enrollment, complete the admission details on the [Monitoring Card for PLW \(Annex 16\)](#) and assign a number.

#### STEP 2: Assessment and Nutritional Management

- ☞ Take a dietary history and determine immunization status and pregnancy care.
- ☞ Provide basic medical care according to the Routine Medical Protocol for PLW ([Annex 17](#)).

- ☞ Provide advice on diet including the need for the following:
  - ⌘ Add one fist of additional food to your three main meals
  - ⌘ Add additional oil to your food
  - ⌘ Eat animal foods (fish, eggs, meat, liver, milk and cheese), dal and/or pulses; green leafy vegetables, orange and yellow fruits and vegetables.

### STEP 3: Make next appointment

- ☞ Give an appointment for the following visit in two weeks
- ☞ Complete the monitoring card for PLW and file in the folder under “PLW in the outpatient care”.

## 6.3 Follow up visits for acutely malnourished PLW

PLW will have an appointment every two weeks at the outpatient site or with the CHW if managed directly at the community level. At each visit, the PLW will be assessed and receive the advice on diet.

- ☞ At each visit MUAC and weight is taken and recorded.
- ☞ Check compliance with medical treatment, dietary advice and discuss any issues.
- ☞ Women with any medical complications should be referred to the nearest health facility.
- ☞ PLW will stay in the program until the infant is 6 months of age (180 days).

## 6.4 Discharge criteria

PLW are ready for discharge when the following criteria are met

Category	Criteria
Recovered	MUAC $\geq$ 210 mm <b>And</b> Infant completed 6 months (180 days)
Defaulted	Absent for 2 consecutive visits
Died	Died while enrolled in outpatient program

## 7. Monitoring, reporting and supervision

### Protocols and reference sheets for this section

- Annex 17: Tally sheets for weekly program monitoring and reporting
- Annex 18: Monthly Report Format: Outpatient care for SAM and MAM
- Annex 19: Performance indicators and calculating rates
- Annex 20: Monthly Narrative Report Format
- Annex 21: Supervision checklist
- Annex 22: Supply requirement for outpatient care for SAM
- Annex 23: Supply Requisition Form for supervisors and program managers

### 7.1 The purpose of monitoring and reporting

It is important to know if the program is effective. Monitoring helps to know what is working well and where there might be gaps. Management and information systems (MIS) must provide sufficient minimal information to determine effectiveness. To understand the program effectiveness, it needs to be monitored the individual child/woman and the performance of the program as a whole.

**Individual child/woman:** Individual child should be tracked as s/he is transferred between different components to ensure that treatment and enrollment/discharge procedures are followed and documented correctly.

**Program** Data on enrollments and discharges/exits (statistical data) should be compiled weekly for management of SAM at outpatient care and every two weeks for MAM and PLW at community level) using a tally sheet at the outpatient site or by the CHW managing the program at the community level. The tally sheets will be collected by a supervisor and used to complete a monthly report at the community level and eventually at UHC level.

### 7.2. Terms used in monitoring and reporting

The following terms are used in the management, monitoring and reporting of SAM, MAM and acutely malnourished PLW

## Definition of terms used in monitoring and reporting

Term	Inpatient Care	Outpatient Care		
		SAM	MAM	PLW
<b>Recovered</b>	Discharged to outpatient site once stabilized	Meets discharge criteria	Meets discharge criteria	Meets discharge criteria
<b>Absent</b>	N/A	Missed one or more visits	Missed one or more visits	Missed one or more visits
<b>Default</b>	Absent more than 2 days	Absent 3 consecutive weeks	Absent 2 consecutive visits	Absent 2 consecutive visits
<b>Death</b>	Died when in inpatient care	Died while enrolled in outpatient care	Died while enrolled in outpatient care	Died while enrolled in outpatient care
<b>Non-responder</b>	Does not meet exit criteria after 14 days	Does not meet discharge criteria after 3 months	Does not meet discharge criteria after 4 months	N/A
<b>Relapse</b>	Discharged from inpatient and once again meets admission criteria	Discharged recovered and once again meets enrollment criteria	Discharged recovered and once again meets enrollment criteria	N/A
<b>Medical transfer</b>		Transferred for medical investigation	Transferred for medical investigation	Transferred for medical investigation
<b>Return after default</b>		Defaulted and returns to the outpatient care within a month	Defaulted and returns to the outpatient care within a month	Defaulted and returns to the program within a month
Transfers in and out				
<b>Transfer IN FROM inpatient care</b>		Transferred to outpatient care after discharge from inpatient care		
<b>Transfer OUT TO inpatient care</b>		Transferred from outpatient care to inpatient care		

## 7.3 Monitoring of individual child and PLW in the program

Monitoring cards should be kept at the outpatient site/community outreach site by the service providers. It is essential that cards are stored and filed properly. Cards could be kept in plastic sleeves and stored in files that are organized into sections as shown below.

If the outpatient care includes MAM and PLW as well as SAM cases, there will need to be files for each category.

An existing MOHFW service card can be given to the mother/caregiver. The card contains key information about the child and basic information on their progress (MUAC, weight, nutritional treatment/supplement received). A new card could be introduced, if the existing card does not include the monitoring indicators for SAM, MAM and acutely malnourished PLW management at community level

File 1: Currently in outpatient care	File 2: Exits from outpatient care
<p><b>Section 1: Cases currently enrolled</b></p> <p><b>Section 2: Absentees:</b> Cases who have missed one or more visits</p> <p><b>Section 3: Transfers awaiting return:</b> These are SAM cases who have been transferred from the outpatient care to inpatient care</p>	<p><b>Section 1: Recovered:</b> Cases who have met the discharge criteria</p> <p>Check in this file for any re-admissions</p> <p><b>Section 2: Defaulters:</b> Cases who have defaulted may return. <i>If they return within one month the same card is used.</i></p> <p><b>Section 3: Non-responders:</b> Cases who do not meet discharge criteria after 3 months in the outpatient care for SAM and 4 months for MAM</p> <p><b>Section 4: Deaths:</b> Cases who have died while in the outpatient care</p> <p><b>Section 5: Medical transfer:</b> Cases who have been referred for medical investigation to other health facility</p>

## 7.4 Numbering system

A registration number is given to each child and PLW when first enrolled in the outpatient care. This number should follow the Health Monitoring Information System (HMIS).

- ☞ ALL records concerning the child/PLW should follow the same numbering system. This includes monitoring cards and transfer slips.
- ☞ Returning defaulters who return to the program within a month retain the same number as they are still suffering from the same episode of malnutrition. Their treatment continues on the same monitoring card.
- ☞ Re-admissions (meet enrollment criteria after being discharged recovered) are given a new number and new card. They are suffering from another episode of malnutrition and therefore require full treatment again.

## 7.5 Monitoring and tracking individual child/woman

Different staff and in some cases different agencies may manage different program components. It is essential that there is contact between the staff managing the various components (facility and community based management/ outpatient care) to ensure children/women are enrolled and transferred with adequate information.

**Transfers to inpatient care:** When a child with SAM with complications requires transfer to inpatient care, the date of transfer is recorded on the CMC for SAM. The CMC remains at the outpatient site (or with the CHW managing the program) and is filed under the section marked “**Transfers awaiting return.**” The child is on transfer and is not an exit since they will return to the outpatient care once stabilized. The transfer slip to inpatient care should note the child’s number. When the child returns from inpatient care to the outpatient care return transfer slip (the same slip) is used.

If a child is transferred to inpatient care and does not return to Outpatient after one week, the CHW should find out what has happened to the child. If a child dies while in inpatient care or defaults, this information should be recorded on the CMC and filed in the correct section.

**Defaulters:** The CMC remains in the discharge file under at the Outpatient site under: **Defaulters.** Defaulters should be followed up by CHWs and encouraged to return. If the child/woman does not return, the reason for default should be investigated.

**Deaths:** When a child dies while in the outpatient care, the CMC card should be filed under **Deaths.** If a child dies while on transfer to inpatient care, this death must be recorded on the CMC. Wherever possible, cause of death should be recorded

**Children who are not responding and need follow up:** When children are not responding well in the program and follow up visits are needed according to the Action Protocol (for instance the child has lost weight), CHWs should investigate possible reasons. The findings should be recorded on the CMC. This information can be used to make decisions about whether to transfer the child to inpatient care.

## 7.6 Program monitoring

Basic information is recorded by the service provider at the outpatient site or CHW on a simple **Tally Sheet (Annex 18)**. Tally sheets are completed as follows:

- ☞ Every week for SAM cases
- ☞ Every two weeks for MAM cases
- ☞ Every two weeks for acutely malnourished PLW

Tally sheets are collected by a supervisor and compiled into a monthly report at the community level and UHC. A standard **Monthly Report Format (Annex 19)** is used. There is one format for SAM and one format for MAM cases, and acutely malnourished PLW. These formats should be available in paper and electronic format.

## 7.7 Collection of data for monthly reports

Basic routine data should be collected and reported every month as follows:

### **New Enrollees (admissions):**

Children/PLW who enter the program to begin nutritional treatment are **new admissions-**. They are divided into the following groups:

- ☞ MUAC admissions (wasted children or pregnant and lactating women)
- ☞ Children with bipedal oedema

These groups together = **Total enrollment (total admissions)**

### **Discharges (Exits)**

Children who are no longer in the program

- ☞ Number of discharge recovered
- ☞ Number of deaths
- ☞ Number of defaults
- ☞ Number of non-responder

These groups together=**Total discharges/exits**

**To find out the total at the end of the month:**

Total in the program at the beginning of the month

Plus total admissions

Minus total discharges/exits

**=The number in the program at the end of the month**

## 7.8 Determining program outcomes

Program outcomes can be compared to international minimum standards. This will tell us whether the program is performing well according to international standards. Outcomes can be illustrated into a graph. The following outcomes must be calculated:

### Recovery rate (or cure rate)

Number of children who completed treatment, met discharge criteria and were discharged.

Recovery rate should be more than 75%

### Mortality rate

Number of children who have died while in the program. *This includes children who died in inpatient care*

Mortality rate for outpatient care should be less than 10% for SAM and 3% for MAM

### Default rate

Number of children who defaulted while registered in the program.

Default rate should be less than 15%

Information may also be collected on average weight gain and average length of stay and the proportion of non-responders and readmissions. Refer to **Performance Indicators and calculating Rates (Annex 20)**



## 7.9 Using the monthly reports to determine program performance

The monthly report can be used to identify and address any issues in the program. Additional information may be gathered from community health workers and community volunteers and through discussions with caregivers of children and other community members.

**High mortality rate:** High mortality rates may be associated with poor quality of treatment in inpatient care or caregiver refusal to be admitted to inpatient care. It may be associated with disease outbreaks and/or insufficient coverage so that children are not identified early enough for treatment to be effective. Programs that identify, refer and treat children early (before complications) have very low mortality rates.

**High default rate:** High default rate is often associated with access and the mother/caregiver's time. If default rate is high consider increasing access and/or moving the outpatient site to every two weeks. In some cases community health workers will have to deliver NM to household level. Once children start to gain weight, mothers and caregivers may begin to drop out of the program. It is therefore important to have strong relationships at the community level to ensure that drop out before complete treatment is minimized.

**High non-responder rate:** Common reasons for non-recovery/responder may include high infectious disease prevalence, sharing of food in the household, poor water and sanitation. It may indicate the need for stronger program linkages with other sectors, better follow up and more effective messages.

**Relapse rate:** Re-enrollment/Readmission rates are usually low in community based care for SAM (< 2%) unless there is widespread chronic disease such as TB or HIV. If re-enrollment rate is above 2% then it may also indicate children are discharged too early. It also may indicate lack of effective messages on the use of nutritional treatment or nutritional supplements, lack of effective prevention messages and failure to treat common childhood illnesses.

## 7.10 Determining coverage

- ☞ Coverage is one of the most important indicators of how well a program is meeting needs. Coverage is expressed as a percentage. If there are 100 children with acute malnutrition living in a program area and 70 of them are in the program then coverage is 70%.

- ☞ Coverage is usually determined through conducting a coverage survey. Coverage surveys should ideally be conducted every 6 months. Coverage surveys can reveal a lot of information about why children/women do not attend the program, why some may be excluded and possible barriers to access. However coverage surveys are costly and require specially trained staff. Simple mechanisms to gauge coverage levels can be used in on a continual basis to monitor the program. A new technique for measuring coverage using ongoing program data and additional inquiry and information has been developed. This is called the **Semi- Quantitative Evaluation of Access and Coverage (SQUEAC)**. SQUEAC uses quantitative and qualitative methods to give an accurate estimate of coverage.
- ☞ In the absence of more formal coverage techniques, simple mapping can also be done. This will help determine where most of the enrollments are coming from and can help determine if more sites should be opened. This will help program managers better understand possible issues in the program such as high default or low coverage.

## 7.11 Summarizing findings

The outcome data and analysis can be used to complete a simple **Monthly Narrative Report Format (Annex 21)**.

The monthly report should be reviewed by the health facility team during monthly meetings. In many cases the supervisor or supervisory team from the district health office will be responsible for reviewing program performance at health facility level.

## 7.12 Supervision

Responsibility for supervision of various components of the CMAM program or the program as a whole should be established during the planning stages. Supervisors are responsible for ensuring the program is running smoothly and overall program quality. The Supervisor should be able to pick up on errors and correct them as well as address any issues that arise in the program.

- ☞ Supervision visits may be conducted by the Upazila/ District Health Management Team or equivalent and may be part of an integrated supervisory visit. A general **Supervision Checklist** can be used (**Annex 22**).
- ☞ Supervisors should be responsible for ensuring that cards are filled in and filed correctly. Supervisory visits should include review of the monitoring cards particularly the cards of children who have died, defaulted and

those not responding to treatment. The supervisor should ensure that enrollment and discharges are made according to the protocol and that treatment protocols are performed correctly. The supervisor should check that the action protocol is properly followed so that cases are transferred and followed up where appropriate.

- ☞ Supervisors should work closely with the service providers at the outpatient site, CHWs and community volunteers to ensure that any issues in implementation or in the management of individual child can be identified and followed up.
- ☞ Supervisors should hold monthly meetings with service providers, CHWs and volunteers to discuss any program issues and answer any questions that may arise. These meetings should cover the issues below.
  - Any issues in program management. This should include a review of the caseload number and if this is manageable for the number of staff available. Any expected increases/decreases in the caseload because of season or sudden population influx should be discussed.
  - Factors that may affect attendance.
  - Staff issues.
  - Supply issues and planning (including NM, drugs and equipment).
  - A review of deaths in outpatient and inpatient care
  - A review of defaulters, children failing to gain weight.
  - A review of transfers to ensure effective tracking.
  - Issues in the community that may affect access.
  - Review of tally sheets and monthly reports.
- ☞ Supervisors are responsible for supply management including ensuring a reliable pipeline of Nutritional Treatment, NM supplies and drugs. Pipeline breaks can result in high default rates. **Supply Requirements for outpatient program for SAM** can be found in **Annex 23**. Supervisors can fill out a **Supply Requisition Form** as shown in **Annex 24**.

# ANNEX

## Annex 1: Measuring malnutrition

### Anthropometric Measurement Techniques:

#### Measuring Mid-Upper Arm Circumference (MUAC)

1. Keep your work at eye level. Sit down when possible. Very young children can be held by their mother during this procedure. Ask the mother to remove clothing that may cover the child's left arm
2. Calculate the midpoint of the child's left upper arm by first locating the tip of the child's shoulder with your fingertips. Bend the child's elbow to make a right angle. Place the tape at zero, which is indicated by two arrows, on the tip of the shoulder and pull the tape straight down past the tip of the elbow. Read the number at the tip of the elbow to the nearest centimeter. Divide this number by two to estimate the midpoint. As an alternative, bend the tape up to the middle length to estimate the midpoint. Either you or an assistant can mark the midpoint with a pen on the arm
3. Straighten the child's arm and wrap the tape around the arm at midpoint. Make sure the numbers are right side up. Make sure the tape is flat around the skin



Steps of measuring MUAC

4. Make sure the tape is not too tight or too loose
5. When the tape is in the correct position on the arm with the correct tension, read and call out the measurement to the nearest 0.1cm.
6. Remove the tape from the child's arm.
7. Immediately record the measurement on the CMC.

## Weighing the child

### To weigh the child:

1. Remove the child's clothes, but keep the child warm with a blanket or cloth while carrying to the scale
2. Put a cloth in the scale pan to prevent chilling the child
3. Adjust the scale to zero with the cloth in the pan. (If using a scale with a sling or pants, adjust the scale to zero with that in place)
4. Place the naked child gently in the pan (or in the sling or pants)
5. Wait for the child to settle and the weight to stabilize.
6. Measurement of weight to the nearest 0.01 kg (10 g) or as precisely as possible
7. Record immediately on the CMC
8. Wrap the child immediately to re-warm

## Standardize the weighing scale

### Standardize scales daily or whenever they are moved:

1. Set the scale to zero
2. Weigh three objects of known weight (e.g., 5, 10, and 15 kg) and record the measured weights. (A container filled with stones and sealed may be used if the weight is accurately known)
3. Repeat the weighing of these objects and record the weights again
4. If there is a difference of 0.01 kg (10g) or more between duplicate weighing, or if a measured weight differs by 0.01 kg or more from the known standard, check the scales and adjust or replace them if necessary

## Assessing presence of oedema

In order to determine the presence of oedema, normal thumb pressure is applied to the both feet for three seconds. If a shallow print persists on the both feet, then the child presents oedema. Children with bilateral pedal oedema (on both feet) are recorded as having nutritional oedema.

Sometimes oedema may be severe. Generalized oedema includes the lower legs, and hands or lower arms and occasionally includes the face.

You must test for oedema with thumb pressure you can't tell by just looking



## Annex 2: Referral Slips from CHW to Outpatient Site

Referral slip for children:	Refer to Outpatient Site
CHILD'S NAME _____ AGE _____	
(months) _____ SEX (circle) <b>F</b> <b>M</b> Name of	
village: _____ MOTHER/CAREGIVER	
NAME _____	
Union: _____ Upazila: _____	
MUAC <11.5cm (RED) MUAC <12.5cm (YELLOW) INFANT < 6 months	
OEDEMA (circle) <b>Yes</b> <b>No</b>	
Referred by: _____	
Referred Date: _____	
Referral slip for PLW:	Refer to Outpatient Site
MOTHER'S NAME _____ AGE (Years) _____	
HUSBAND'S NAME _____	
Name of village: _____ Union _____	
Upazila: _____ District: _____ MUAC	
<21cm	
Referred by: _____	
Referred Date: _____	



## Annex 3: CHW Home Visit Form and Checklist

### Home Visit Form

Reason for home visit (circle):	Absence	Default	Follow up
CHILD/WOMAN'S NAME _____			
CHILD/WOMEN AGE (months/years) _____			
CHILD SEX (circle) <b>F</b> <b>M</b> CHILD/WOMAN'S Registration number _____			
Name of village _____			
Union _____                      Upazila _____			
CAREGIVER'S/HUSBAND'S NAME _____			
Date of visit _____			
Findings: Defaulted            Died            Other (specify) _____			
Community Health Worker name: _____			

## CHECKLIST FOR HOME VISIT

Community Health Worker's Name: \_\_\_\_\_

Date of Visit: \_\_\_\_\_

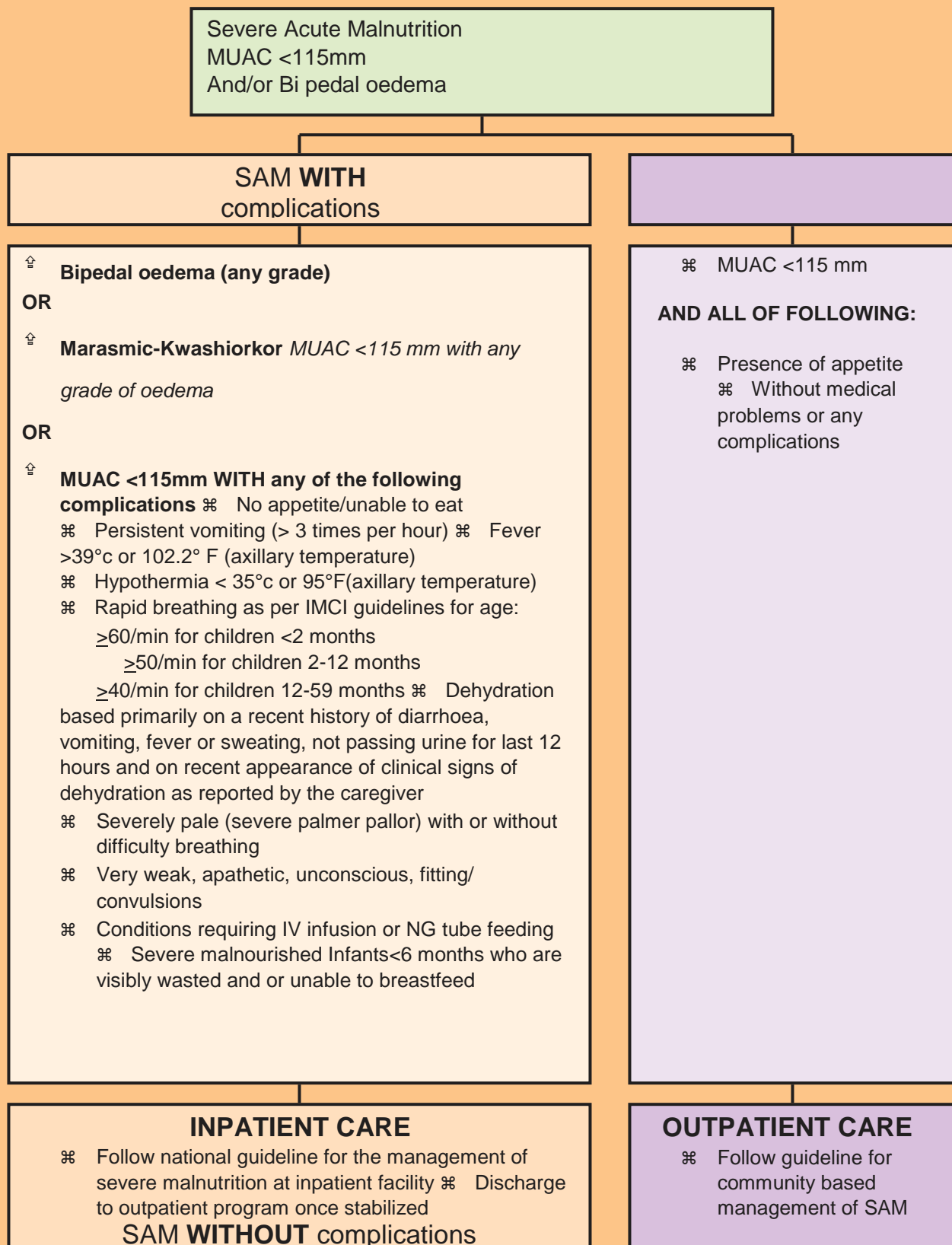
Child's Name: \_\_\_\_\_

**Note:** If problems are identified, please list any health education or advice given in the space below. Return this information to outpatient care site.

<b>Feeding</b>		
Is the ration of the NM present in the home?	Yes	No
If not, where is the ration?		
Is the available NM enough to last until the next outpatient care session?	Yes	No
Is the NM being shared or eaten only by the sick child?	Shared	Sick child only
Yesterday, did the sick child eat food other than NM?	Yes	No
If yes, what type of food?		
Yesterday, how often did the child receive breast milk? (for children < 2 yrs.)		
Yesterday, how many times did the child receive family food?		
Yesterday, how many times did the sick child receive NM?		
Did someone help/encourage the sick child to eat?	Yes	No
What does the caregiver do if the sick child does not want to eat?		
Is safe water available?	Yes	No
Is safe water given to the child when eating special food?	Yes	No
<b>Caring</b>		
Are both parents alive and healthy?		
Who cares for the sick child during the day?		
Is the sick child clean?	Yes	No
<b>Health and Hygiene</b>		
What is the household's main source of water?		
Is there soap for washing in the house?	Yes	No
Do the caregiver and child wash hands and face before the child is fed?	Yes	No
Is food covered and free from flies?	Yes	No

What action does the caregiver take when the child has diarrhoea?		
<b>Food Security</b>		
Does the household currently have food available?	Yes	No
What is the most important source of income for the household?		
<b>COMMENTS:</b>		

## Annex 4: Classification of Severe Acute Malnutrition





## Annex 5: Child Monitoring Card (CMC) for SAM

### Child Monitoring Card for Children with SAM

Registration No ____/____/____/____/____/____	Child's name:
	Mother/Caregiver name:
Outpatient site name:	DOB:                      Age (Months):
Health worker/ CHW name:	Sex:                      Male                      Female
Ward:	Union:
Upazila:	District:

Return after default: Yes                      No                      Relapse: Yes                      No

#### General information:

Continued Breastfeeding: Yes                      No	Complementary Feeding: ⌘ Initiation time (age of baby in month): ⌘ Type of food: ⌘ Daily how many times:
Received all EPI vaccinations: Yes                      No	Received Measles vaccination: Yes                      No                      NA
Received last Vitamin A capsule:                      Date:                      NA	

#### Enrollment medication:

Medical treatment given today	Antibiotic
	Vitamin A capsule
Medical treatment on follow up visits	Albendazole (date)
	Other (Date)

#### Discharge information:

Discharge Date: ____/____/ 20
<ul style="list-style-type: none"> <li>• Recovered</li> <li>• Defaulter</li> <li>• Died while in program</li> <li>• Non-responder</li> </ul>

Indicators	Weeks											
	Enroll	2	3	4	5	6	7	8	9	10	11	12
Date of session												
Attendance(Yes/No)												
General danger sign/ complications (Yes/No)												
Weight (kg)												
MUAC in cm												
Odema												
Temperature (o F)												
Diarrhea (Yes/No)												
Diarrhea with Dehydration (Yes/No)												
Respiratory rate (min)												
Pneumonia (Yes/No/Severe)												
Appetite (Yes/No)												
Diagnosis: SAM with complications (Yes/No)												
Nutritional Management given # packets												
Inpatient transfer (date)												
Information on treatment received in inpatient care												
Return from inpatient care (date)												
Home visit required (Yes /No)												

<b>Comments:</b>												
<b>Notes on home visits prevention messages given and practiced</b>												

## Annex 6: Action Protocol to determine SAM with complications

To determine the need for transfer to inpatient care and home visits (6-59 months children)

Sign	Transfer to Inpatient Care	Home visit
<b>Oedema</b>	Any grade of oedema	
<b>Appetite</b>	Poor appetite or unable to eat	Any child with mild illness or problems with treatment
<b>Vomiting</b>	Persistent vomiting (>3 times per hour)	
<b>Temperature</b>	Fever (>39° C or 102.2° F axillary)	
	Hypothermia (<35° C or 95° F axillary)	
<b>Respiratory rate</b>	Rapid breathing according to IMCI guidelines for age: ⌘ ≥60/minute for children <2 months ⌘ ≥50/minute for children 2-12 months ⌘ ≥40/minute for children 12-59 months	
<b>Anaemia</b>	Severely pale (severe palmer pallor) with or without difficult breathing	
<b>Infection</b>	Extensive infection requiring parenteral treatment	
<b>Alertness</b>	Very weak, apathetic, unconscious, convulsions	



<b>Hydration status and dehydrating diarrhoea</b>	Dehydration based primarily on a recent history of diarrhea, vomiting, fever or sweating	
	Not passing urine for last 12 hours and/or recent appearance of clinical signs of dehydration as reported by the caregiver	
<b>Weight changes</b>	- Weight loss for 3 consecutive weeks - Static weight after 5 weeks	Weight static or loss in any follow up visit
<b>Return from inpatient care/refuses inpatient care</b>		Return from inpatient care
		Mother/caregiver refuses inpatient care
<b>Not recovering/ non-responder</b>	If not recovered after 3 months refer for medical evaluation	
<b>Absence</b>		Absent for one or more weeks
<b>Default</b>		Absent for three consecutive weeks

## Annex 7: Transfer slip from outpatient to inpatient care and from inpatient to outpatient care

Transfer slip from Outpatient Care to Inpatient Care
Name of child _____ Age: _____ Sex: M    F Mother/caretaker's name: _____ Village: _____ Ward _____ Union _____ Upazila: _____ District: _____ Date of admission to Outpatient Program: _____ Registration # _____
<b>Admission information:</b> Weight _____ MUAC: _____ Oedema (put tick mark):    Yes    No Transfer from: _____ (Name of health facility or HW location) Transfer to: _____ (Name of UHC ) Date of transfer: _____
<b>Reason for transfer to inpatient care (put tick mark):</b> Poor or no appetite:      Medical complications:      Oedema:      No weight gain: Static weight:    Infant < 6 months:      Other, specific: _____ Other reason: _____ Medical treatment given: Amoxicillin/antibiotic      Vitamin A capsule      Albendazole Other Medical treatment given: _____ Nutritional Management (NM) received (if any) _____ Transferred by (name and signature of service provider) _____
Return slip from Inpatient Care to Outpatient Program
Date of return to outpatient program: _____ Treatment given in inpatient care: _____ Comments: _____ Return transfer by (name and signature of health worker/doctor) _____

## Annex 8: Key messages for caregivers of children with SAM

These messages should be given to caregivers of children with SAM on enrollment in the outpatient program.

- 👤 Nutritional Management (NM) is especially for severely malnourished children (6-59 months) only. It should be given as per advice
- 👤 Your child should have **X** (*note the amount of NM according to age/weight of child*) amount of recommended food each day
- 👤 Your child should continue to breastfeed regularly
- 👤 Your child may need to be encouraged to eat. Give frequent feeds of small amounts of recommended food as per advice
- 👤 Always offer plenty of safe drinking water while under NM
- 👤 Give additional nutritious household foods **AFTER** breastmilk and recommended food if they are still hungry after eating the prescribed daily amount of NT
- 👤 Use soap to wash your child's hands before eating. Caregivers should wash their own hands before feeding the child
- 👤 If your child has diarrhoea, never stop feeding. Give extra food, ORS, Zinc and continue breastfeeding
- 👤 Medicine is important for the recovery of your child. Give the child all the medicine provided. Store medicine out of reach of children
- 👤 If your child has any medical complications, take the child to the nearest health facility

### NOTE

These messages are basic essential messages that must be given on enrollment to ensure compliance with nutritional management and medical treatment for SAM. Other prevention messages including IYCF should be given during follow up visits and in the community.

**Annex 9: Routine medical protocol for children (6-59 months) with SAM without complications**

Drug/Vaccine/ Micronutrient	When	Age/Weight	Prescription	Dose
<b>VITAMIN A</b>	On enrollment (if not taken within last 1 month)	6 months to < 1 year	100 000 IU	Single dose on admission
		≥1 year	200 000 IU	
<b>AMOXYCILLIN</b>	On enrollment	6-12 months	125mg	3 times/day for 5 days
		12-24 months	187.5mg	
		24-59 months	250mg	
<b>*ALBENDAZOLE</b>	Second visit (if not taken within last 3 months)	< 12 months	<b>DO NOT GIVE</b>	
		12-23 months	200mg	Single dose
		≥2 years	400 mg	
<b>MEASLES VACCINATION</b>	Fourth visit (if not already vaccinated)	>9 months	Standard	Single dose

\* Should be taken in empty stomach

## Annex 10: IYCF feeding recommendations of family diet up to 2 years of age and IMCI feeding recommendations of family diet after two years of age

### IYCF feeding recommendations of family diet up to 2 years of age

Age	Frequency (per day)	Amount of at each serving (In addition to breast milk)	Texture (thickness/ consistency)	Variety
6 months (181 days ) to 8 months	At least 2 times Mashedfamily food	½ bowl (250 ml)	Thick porridge/pap Mashed/ pureed family foods	Breastfeeding + Every day(rice, lentils, colorful and dark green leafy vegetables , fish, meat, eggs, liver) at least four types of food
9-11 months	At least 3 times foods and 1 to 2 times nutritious snacks	½ bowl (250 ml)	Finely chopped family foods Finger foods Sliced foods	
12-24 months	At least 3 times foods and 1 to 2 times nutritious snacks	1 bowl (250 ml)	Family foods Sliced foods	
<b>Responsive Active feeding</b>	Be patient and encourage your baby to eat actively			
<b>Hygiene</b>	<ul style="list-style-type: none"> <li>⌘ Feed your baby using a clean cup and spoon, <b>never a bottle</b> as this is difficult to clean and may cause your baby to get diarrhoea.</li> <li>⌘ Wash your hands with soap and water before preparing food, before eating and before feeding young children.</li> </ul>			

## IMCI feeding recommendations of family diet after two years of age

Age	Frequency (per day)	Amount of at each serving*	Texture (thickness/ consistency)	Variety
2 years and older	3 to 4 times foods and 1 to 2 times nutritious snacks	Give at least 1 bowl (250 ml) at each meal	Family foods	Animal-source foods and vitamin A rich fruit and vegetables
	<ul style="list-style-type: none"> <li>- If your child refuses a new food offer “tastes” several times. Show that you like the food. Be patient.</li> <li>- Talk with your child during a meal and keep eye contact.</li> </ul>			

A good daily diet should be adequate in quantity and include an energy-rich food (for example: thick cereal with added oil); meat, egg, fish, or pulses; and fruits and vegetables.

## Annex 11: Child Monitoring Card (CMC) for MAM

### Child Monitoring Card for Children with MAM

Registration No _/_/_/_/_/_/_/_	Child's name:
	Mother/Caregiver name:
Outpatient site name:	DOB:                      Age (Months):
CHW name:	Sex:                      Male                      Female
Ward:	Union:
Upazila:	District:

Return after default: Yes                      No                      Relapse: Yes                      No

#### General information:

Continued Breastfeeding: Yes                      No	Complementary Feeding: ⌘ Initiation time (age of baby in month): ⌘ Type of food: ⌘ Daily how many times:
Received all EPI vaccinations: Yes                      No	Received Measles vaccination: Yes                      No
Received last Vitamin A capsule:	Date:

#### Medication given on enrollment:

Medication	Date:
Albendazole	
Vitamin A	

#### Discharge information:

Discharge Date: ____/____/ 20
<ul style="list-style-type: none"> <li>• Recovered</li> <li>• Defaulter</li> <li>• Died while in program</li> <li>Non-responder</li> </ul>

Indicators	Weeks
------------	-------

<b>Session</b> (every two weeks)	<b>Enroll</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
<b>Date of session</b>												
<b>Attendance</b> (Yes/No)												
<b>General danger sign</b> Yes/No)												
<b>Weight (kg)</b>												
<b>MUAC in cm</b>												
<b>Diarrhea</b> (Yes/No)												
<b>Diarrhea with Dehydration</b> (Yes/No)												
<b>Health facility referral</b> (date)												
<b>Home visit</b> (Yes /No)												
<b>Comments:</b>												
<b>Notes on home visits and prevention messages given and practiced</b>												



## Annex 12: Action Protocol for MAM

Sign	Transfer to outpatient Care for SAM	Transfer to Medical Facility (Inpatient Care)	Home visit
MUAC	< 115 mm		
Oedema		Transfer to nearest health facility	
Any danger sign of medical condition		Transfer to nearest health facility	
Weight changes		No weight gain for 2 visits or static weight for 3 visits	Weight static or weight loss in any follow up visit
Not recovered after 4 months		Transfer to nearest health facility to investigate possible underlying cause	
Absence			Absent for one or more visits
Default			Absent for two consecutive visits

### Annex 13: Routine medical protocol for MAM

Drug/Vaccine/ Micronutrient	When	Age/Weight	Prescription	Dose
VITAMIN A	On enrollment (not taken in last 1 month)	6 months to < 1 year	100 000 IU	Single dose on admission
		≥1 year	200 000 IU	
*ALBENDAZOLE	On enrollment (not taken in last 3 months)	< 12 months	DO NOT GIVE	
		12-23 months	200mg	Single dose
		≥2 years	400 mg	
MEASLES VACCINATION	On enrollment	After completion of 9 months	Standard	Single dose

**Note:** Children completing for SAM transferred to the outpatient care for MAM should NOT be given routine medical treatment again. \* **Should be taken in empty stomach**

## Annex 14: Energy and nutrients dense local food recipes Local food Recipes

Local foods such as Khichuri and Halwa can be used to manage MAM. Local recipes must be fortified with micronutrients including 15 essential micronutrients in order to ensure catch up growth. **Khichuri**

Ingredient	Amount for	Equivalent
Rice	120 g	
Lentils (mashur dal)	60 g	
Oil (soya)	70 ml	
Potato	100 g	
Pumpkin	100 g	
Leafy vegetable (shak)	80 g	
Onion (2 medium size)	50 g	
Spices (ginger, garlic, turmeric, coriander )	50 g	
Water	1000 ml	
Total energy/kg	1,442 kcal	
<b>Directions for use</b>		
Put the rice, lentils, oil, onion, spices and water in a pot and boil. Cut the potatoes and pumpkin into pieces and add to the pot after 20 minutes. Five minutes before the rice is cooked, add the cleaned and chopped leafy vegetable. The pot should be kept covered throughout cooking. Khichuri takes about 50 minutes to cook and can be kept at room temperature for 6-8 hours.		

### Halwa

Ingredient	Amount for 1 kg	Equivalent
Wheat flour (atta)	200 g	
Lentils (mashur dal)	100 g	
Oil (soya)	100 ml	
Molasses (brown sugar or gur)	125 g	
Water (to make a thick paste)	600 ml	
Total energy/kg	2,404 kcal	
<b>Directionsfor use</b>		

Soak the lentils in water for 30 minutes and then mash. Roast the wheat flour on a hot pan for a few minutes, and then mix with the mashed lentils, oil and water. Melt the molasses and add to the mixture to make a thick paste. Halwa takes about 15 minutes to cook and can be kept at room temperature for 6-8 hours.

## Annex 15. Monitoring card for Pregnant and Lactating Women

Monitoring Card for PLW with Acute Malnutrition	
Registration No ____/____/____/____/____/____	Pregnant/Lactating woman's name:
	Husband's name:
Outpatient site name: CHW name:	Age (years):
Ward:	Union:
Upazila:	District:

### General information:

Pregnancy Period (months):	Pregnancy order:
Received TT vaccinations: Yes            No	L.M.P. :
	E.D.D :
Date of Delivery:	Received last Vit- A: Date: for LW
Lactating Women	Date:
Age of infant at enrollment	
Exclusive breastfeeding      No	
Yes	

### Medication given:

	Date:
Folic acid	
Iron/folic acid	
Calcium	
Albendazole	
Vitamin A	

### Discharge information:

Discharge Date: ____/____/ 20
-------------------------------

- Recovered
- Defaulter
- Died while in program

Indicators	Weeks												
	Enroll	2	3	4	5	6	7	8	9	10	11	12	
<b>Session</b> (every two weeks)													
<b>Date of session</b>													
<b>Attendance</b> (Yes/No)													
<b>Weight (kg)</b>													
<b>MUAC in mm</b>													
<b>Hospital referral (date)</b>													
<b>Home visit</b> (Yes /No)													
<b>Comments:</b>													
<b>Notes on home visits and prevention messages given and practiced</b>													

## Annex 16: Routine medical protocol for acutely malnourished Pregnant Lactating Women (PLW)

<b>Pregnant Women</b>			
<b>Drug/Micronutrient</b>	<b>When</b>	<b>Prescription</b>	<b>Dose</b>
<b>FOLIC ACID</b>	On enrollment	400ug Folic Acid	Single dose daily up to completion of first trimester
<b>IRON/ FOLIC ACID</b>	From 2nd trimester of pregnancy	60mg Iron plus 400ug Folic Acid	Single dose daily up to delivery
<b>CALCIUM</b>	From 2nd trimester of pregnancy	500mg	Single dose daily up to delivery
<b>ALBENDAZOLE</b>	From 20 weeks to 28 weeks (5 to 7 months) of pregnancy	400 mg	Single dose
<b>Lactating Mothers</b>			
<b>Drug/Micronutrient</b>	<b>When</b>	<b>Prescription</b>	<b>Dose</b>
<b>VITAMIN A</b>	Within 6 weeks of delivery	200 000 IU	Single dosement
<b>ALBENDAZOLE</b>	On enrollment	400 mg	Single dose
<b>CALCIUM</b>	On enrollment	500mg	Single dose daily until child age is 6 months

<b>IRON/FOLIC ACID</b>	<b>On enrollment</b>	<b>60mg Iron plus 400ug Folic Acid</b>	<b>Single dose daily until child age is 3 months</b>
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## Annex 17: Tally sheets for weekly program monitoring and reporting

### WEEKLY TALLY SHEET REPORT FOR OUTPATIENT CARE OF CHILDREN WITH SAM

### WEEKLY TALLY SHEET REPORT FOR OUTPATIENT CARE OF CHILDREN WITH MAM

Month: _____ 20__							
Outpatient site name/CHW name : _____							
Ward: _____ Union: _____ Upazila _____ District: _____							
Week		1	2	3	4	5	Month Total
Date							
<b>(A) TOTAL IN PROGRAM AT BEGINNING OF WEEK</b>							
<b>Enrolled</b>	MUAC <125 mm						
	<b>(B) TOTAL ENROLLMENT</b>						
<b>discharges/Exits</b>	Recovered						
	Death						
	Defaulter						
	Non-responder						
<b>(C) TOTAL EXITS</b>							
<b>(D) TOTAL IN PROGRAM AT END OF WEEK (A+B-C =D)</b>							
<b>ADDITIONAL INFORMATION</b>							
Return after default							
Enrolled again after relapse							
New Enrollment	Boy						
	Girl						

**Annex 18: WEEKLY TALLY SHEET REPORT FOR OUTPATIENT CARE OF ACUTELY MALNOURISHED PLW**

Month: _____ 20__						
Outpatient site name/CHW name : _____						
Ward: _____ Union: _____ Upazila _____ Districts: _____						
Week	1	2	3	4	5	Month Total
Date						
<b>(A) TOTAL IN PROGRAM AT BEGINNING OF WEEK</b>						
<b>Enrolled</b>	MUAC < 210 mm					
	<b>(B) TOTAL ENROLLMENT</b>					
<b>Exits</b>	Recovered					
	Death					
	Defaulter					
	<b>(C) TOTAL EXITS</b>					
<b>(D) TOTAL IN PROGRAM AT END OF WEEK (A+B-C =D)</b>						
<b>ADDITIONAL INFORMATION</b>						
Return after default						

## **Annex 19(a): MONTHLYREPORT - OUTPATIENT CARE FOR SAM**

Name of Out patient site/ health	Union/ Upazila/ District/ Month/ Year	ENROLLMENT (B)	D		TOTAL ENROLLMENT (D) = A + B - C	
			TOTAL AT END OF MONTH			
			C			
			TOTALEXITS			
		Exit s				
			NON-RECOVERED			
			DEFAULTER			
			DEATH			
			RECOVERED			
			B			
			TOTALENROLLMENT			

Name of Outpatient site/health facility	Report prepared by	TOTAL AT END OF MONTH						TOTAL PROGRAM AT END OF MONTH (D) A+B+C		
		Exit s	TOTAL EXITS							
			NON-RECOVERED							
			DEFAULTER							
			DEATH							
		RECOVERED								
		) D ( TOTAL ADMISSIONS								
		ENROLLMENT (B)	New Enrollees							
				MUAC < 210 mm						
				MUAC < 125 mm						
) A ( BEGINNING OF MONTH TOTAL IN PROGRAM AT										
Target group				mon 6-50s	TOTAL					

**Annex 19(b): Monthly Report Outpatient Care for MAM and PLW**

## Annex 20: Performance indicators and calculating rates

Performance indicators for the management of SAM and MAM are shown below

Outcomes	International recommended minimum standards*
% Recovered	> 75 %
% Defaulted	< 15 %
% Died	< 10 % (SAM)
	< 3% (MAM)
% Coverage	>50% (rural)
	>70% (urban)
Optional indicators	
Length of stay	
Rate of weight gain	>5g/kg/day**

\*Based on Sphere Minimum Standards for Humanitarian Response(2011).

\*\*A weight gain of 5g/kg/day is a suggested guideline for community-based programs.

### Calculating rates

**Recovery rate**      Total no. of children recovered x 100/Total exits      **Defaulter rate**

Total no. of defaulters x 100/Total exits

**Death rate**      Total no. of deaths x 100/Total exits

**Non responder rate**      Total no. Non responders x 100 /Total exits

Average weight gain and length of stay can be calculated for recovered children in the outpatient program for SAM and MAM. Use a sample of 30 discharged children (without oedema).

**Average length of stay (days) calculated as:**

$$\frac{\text{Sum of length of stay (days) for each cured child}}{\text{30 recovered children}}$$

**Average weight gain (g/kg/day) is calculated as:**

$$\frac{\text{Discharge weight in g} - \text{minimum weight in g}}{\text{Minimum weight in kg} \times \text{number of days between date of minimum weight and discharge day}}$$

$$\text{Average weight gain} = \frac{\text{sum of weight gains (g/kg/d)}}{\text{Number of cards (e.g. 30 cards)}}$$

## Annex 21: Monthly narrative report (completed by supervisors)

### 1. Performance indicators (according to tally sheets and monthly data report)

% discharged recovered \_\_\_\_\_

% of deaths \_\_\_\_\_

% of defaults \_\_\_\_\_

% non-responders \_\_\_\_\_

Compare performance indicators to SPHERE minimum standards. Present this as a pie chart.

### 2. Program outputs

Number of outpatient sites in program: \_\_\_\_\_

Number of CHWs treating SAM \_\_\_\_\_ MAM \_\_\_\_\_ PLW \_\_\_\_\_

Number CHW's actively identifying and referring cases of SAM/MAM/PLW during outreach activities \_\_\_\_\_

Total number of admissions SAM \_\_\_\_\_ MAM \_\_\_\_\_ PLW \_\_\_\_\_

Total number of exits SAM \_\_\_\_\_ MAM \_\_\_\_\_ PLW \_\_\_\_\_

Number of relapse SAM \_\_\_\_\_ MAM \_\_\_\_\_ PLW \_\_\_\_\_

Number of children transferred to inpatient care (SAM only) \_\_\_\_\_

Number of children transferred completing treatment in inpatient care \_\_\_\_\_

Number of deaths in inpatient care \_\_\_\_\_

### Analysis

Reasons for default:

Actions taken to address absences and default:

Note any program issues (supply issues, barriers to access, staff problems, community issues, security concerns, anticipated increases in caseload)

Note any opening of additional outpatient sites, training planned:

## Annex 22: Supervision checklist

Name of supervisor: \_\_\_\_\_

Designation \_\_\_\_\_

Outpatient site name \_\_\_\_\_

Date \_\_\_\_\_

CHW name if managing program in community \_\_\_\_\_

	Quality P=poor S=satisfactory G=good	Discussed with staff (Y/N)	Comments/ actions taken
<b>Anthropometry</b>			
Oedema assessed accurately			
MUAC measured accurately			
<b>Outpatient program for SAM</b>			
Enrollment procedures and criteria correct			
Enrollment history recorded accurately on CMC			
Medical examination performed correctly and recorded			
Appetite test conducted correctly			
Routine medicines given correctly			
Classification of SAM and Action Protocol used correctly to			
Determine SAM with and without complications			
Children with complications correctly transferred to inpatient care			
CMC card filled correctly			
NM amount is given correctly			
Key messages are given to caregiver correctly			
Home visits requested correctly according to the Action Protocol			
Children absent or defaulted followed up in community			
Non responders referred for medical investigation			
IYCF prevention messages given and practiced			
Discharge procedure criteria correctly followed			
<b>Outpatient program for MAM</b>			



Enrollment procedures and criteria correct			
Routine medicines available and given correctly			
CMC filled out accurately			
Exit procedure and criteria correct			
Children absent or defaulted followed up in community			
Non responders referred for medical investigation			
IYCF prevention messages given and practiced			
Discharge procedures and criteria correctly followed			
<b>Outpatient program for PLW</b>			
Enrollment procedures and criteria correct			
Routine medicines available and given correctly			
Monitoring card filled out accurately			
Prevention messages/nutrition advice given and practiced			
Discharge procedures and criteria correctly followed			

	Quality P=poor S=satisfactory G=good	Discussed with staff (Y/N)	Comments/ actions taken
<b>Community outreach activities</b>			
Active case finding conducted by CHWs			
Children referred accurately from the community			
Community leaders understand purpose of the program			
Children absent, defaulted are followed up			
IYCF/prevention messages given and practiced			
<b>Monitoring and reporting</b>			
Number system used correctly			
Monitoring cards filed correctly in right section of file			
Transfer slips filled out correctly			
Tally sheets completed correctly and on time			

<b>Supplies, equipment and organization</b>			
Break in supplies (yes/no)			
NM supplies stored correctly			
Necessary equipment and supplies available (yes/no)			
Outpatient site organized well (yes/no)			
Staff capacity sufficient to manage case load (yes/no)			

### Annex 23: Supply requirements for outpatient care of SAM

<b>Basic supplies per site</b>	<b>Number</b>
MUAC Tapes	50
Scales	1 (per site)
Soap	5
Plastic cups and jugs	3
Thermometer	2
Watch/ARI timer	2
Scissors	2
Pens	10
Marker pens	2
Notebooks	5
Paper towel	5
Teaspoons or medicine cups	10
<b>Essential medicines (100 children)</b>	<b>Number/unit</b>
Vitamin A	2 tins
Albendazole	2 tins
Amoxicillin	100 bottles
Provider pack	1 (for each Service Provider)
Wall chart pack	1
<b>Supplies for monitoring (100 children)</b>	<b>Number/unit</b>
Monitoring (per site)	
Child monitoring cards	100
Tally sheets	50

File for cards	2
File for tally sheets	2
Plastic envelopes for cards	100
Transfer slip books (in duplicate copies)	2 books (each with 50 slips)
Community referral slips (in duplicate copies)	2 books (each with 50 forms)
<b>Supervisors (for each supervisor)</b>	<b>Number</b>
Supervisor check list	2
Supply request forms (in duplicate copies)	5
File for Tally sheets	1
File for monthly report format	1

## Annex 24: Supply Requisition Form for supervisors and program managers

Date \_\_\_\_\_

Request made by: \_\_\_\_\_

Item	In stock	Minimum buffer stock	Amount requested
Nutritional Management		2 months' supply	
MUAC Tapes		100	
Amoxicillin		50 bottles	
Vitamin A		10 tins	
Albendazole		10 tins	
Child Monitoring Cards		500	
Community referral slip book		10	
Transfer slip book		10	
Monthly report		20	
Plastic envelopes		500	
Provider Packs		5 packs	
Wall charts		5 packs	
Files		5	
<b>Other</b>			

Scale		5	
Soap		100 pieces	
Plastic cups and jugs		10	
Thermometer		5	
Watch/ARI timer		5	
Scissors		5	
Pens		50	
Marker pens		10	
Notebooks		10	
Paper towel		20	
Teaspoons or medicine cups		50	

Other requests Comments:

Signed by: \_\_\_\_\_

## ANNEX

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