

# Webinar series for Latin America and the Caribbean

## Nutrition in emergencies in the context of COVID-19 and migration

- 10<sup>th</sup> March** Prevention of malnutrition in pregnant and breastfeeding women
- 17<sup>th</sup> March** Prevention of malnutrition in children under five – Infant and young child feeding and supplementation
- 24<sup>th</sup> March** Nutrition care for children under five with acute malnutrition

*Spanish (9 to 10:30 am Panama time)*

*English (11 to 12:30 Panama time)*



Facilitators

Technical support



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Global Nutrition Cluster Technical Alliance

# Nutrition care for children under five with acute malnutrition

**Webinar series for Latin America and the Caribbean**  
**Nutrition in emergencies in the context of COVID-19 and migration**

March 24<sup>th</sup> 2021

# Pre-webinar evaluation

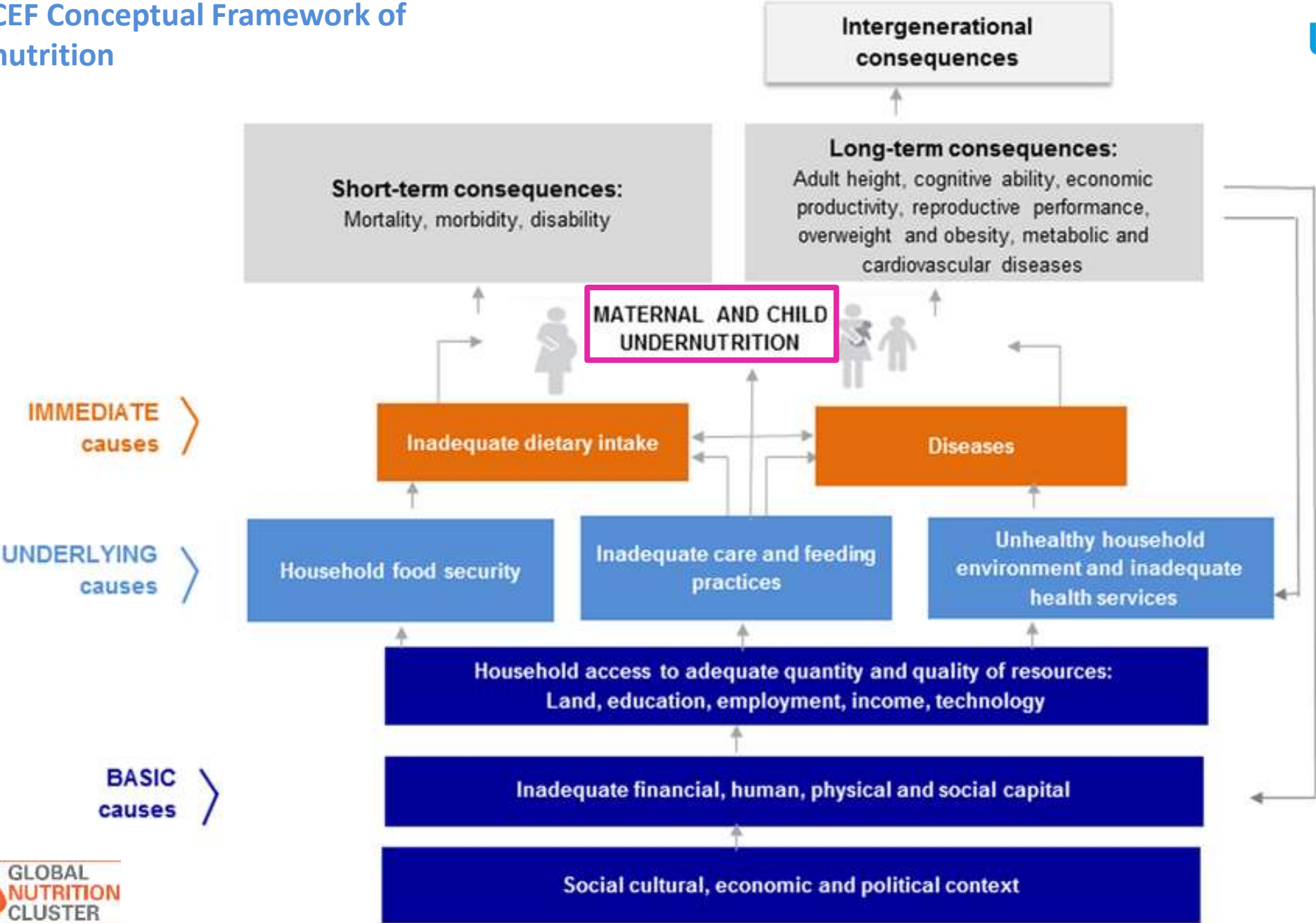
# Presentation content

1. Acute malnutrition - Wasting
  - What it is
  - Why it is important to identify
  - Which factors cause it
  - How to determine if a child has acute malnutrition
2. Basics of community management of acute malnutrition
3. Simplified approaches to community management of acute malnutrition in the COVID-19 context
4. Resources

# 1. Acute malnutrition - Wasting



# UNICEF Conceptual Framework of Malnutrition



# Acute malnutrition

## What is it?



- **Acute malnutrition** is a form of undernutrition caused by:
  - a decrease in food consumption and/or
  - illness



results in

Sudden weight loss or oedema (fluid retention)

- **Acute malnutrition** can be **moderate** or **severe**



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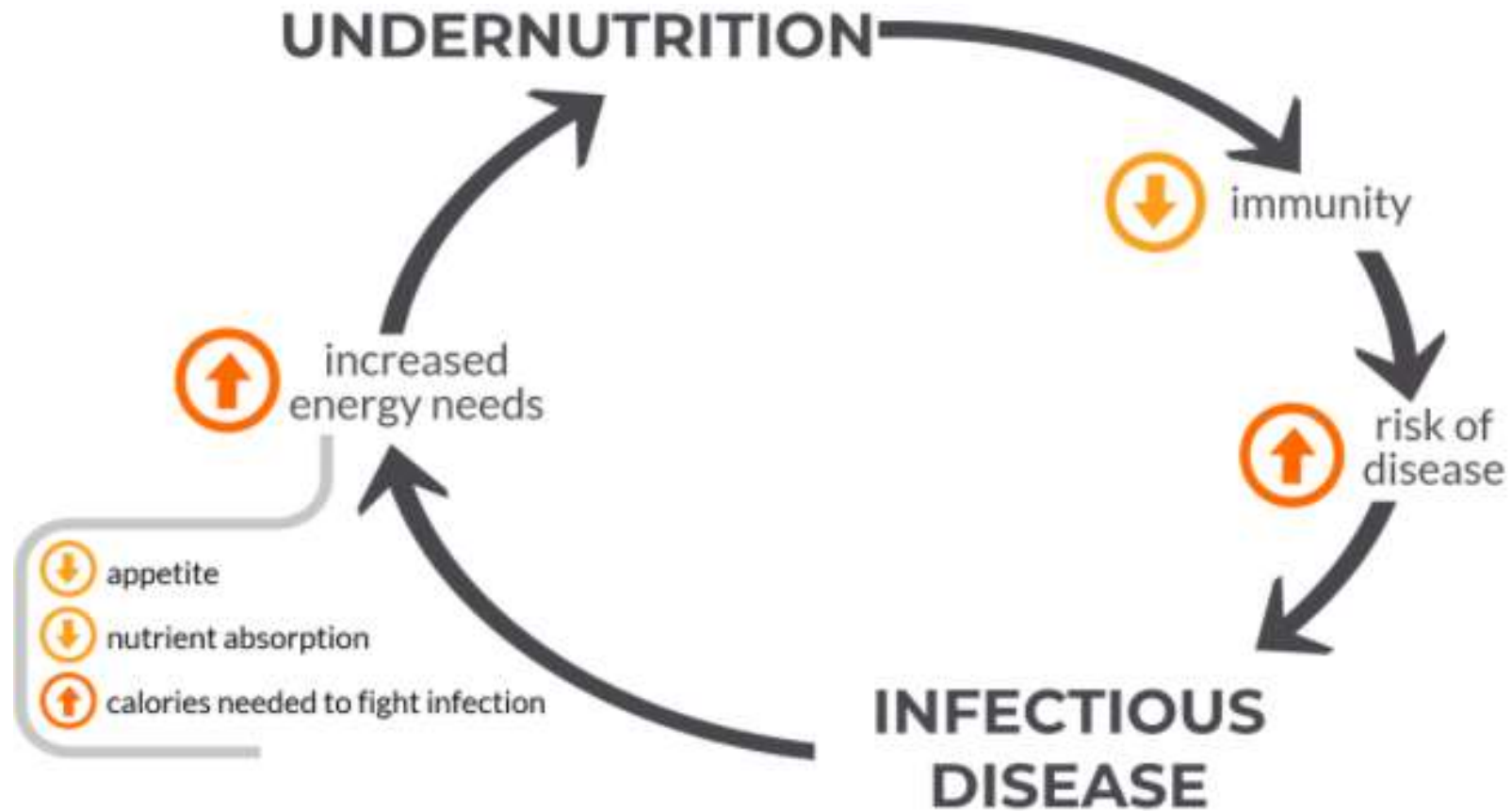
- **Acute malnutrition** can be **moderate** or **severe**



**Increased susceptibility to infections and severity of illness**

# Acute malnutrition

## What is it?



# Acute malnutrition

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  - a decrease in food consumption and/or
  - illness



results in

Sudden weight loss or oedema (fluid retention).

- **Acute malnutrition** can be **moderate** or **severe**



**Increased susceptibility to infections and severity of illness**

**Increased risk of death due to infectious diseases**

# Acute malnutrition

## Why is important to identify it?

Probability of death due to infectious diseases according to the degree of acute malnutrition

Weight for height	All deaths	Death due to pneumonia	Death due to diarrhoea	Deaths due to other infections
<b>Severe acute malnutrition (&lt; - 3 SD)</b>	<b>11.6</b>	<b>9.7</b>	<b>12.3</b>	<b>11.2</b>
<b>Moderate acute malnutrition (-3 a &lt;-2 SD)</b>	<b>3.4</b>	<b>4.7</b>	<b>3.4</b>	<b>2.7</b>
Normal nutritional status (-2 a <-1 SD)	1.6	1.9	1.6	1.7
Normal nutritional status (> -1 SD)	1	1	1	1

# Acute malnutrition

## Which factors cause it?

- Inadequate dietary intake
- Inappropriate feeding
- Fetal growth restriction
- Inadequate sanitation
- Lack of parental education
- Family size
- Incomplete vaccination
- Poverty
- Economic, political, and environmental instability
- Emergency situations

# Acute malnutrition

## Which factors cause it?

- Inadequate dietary intake
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- Economic, political, and environmental instability
- Emergency situations



## COVID-19 context

### Worsening situation

- Loss of employment and income
- Reduced economic access to food
- Disruption of services leading to limited or no access to health services

# Acute malnutrition

## How to determine if a child has acute malnutrition?

There are criteria to determine the cases of acute malnutrition

Anthropometry  
(Weight/Height)

Mid-upper arm  
circumference

Oedema  
testing

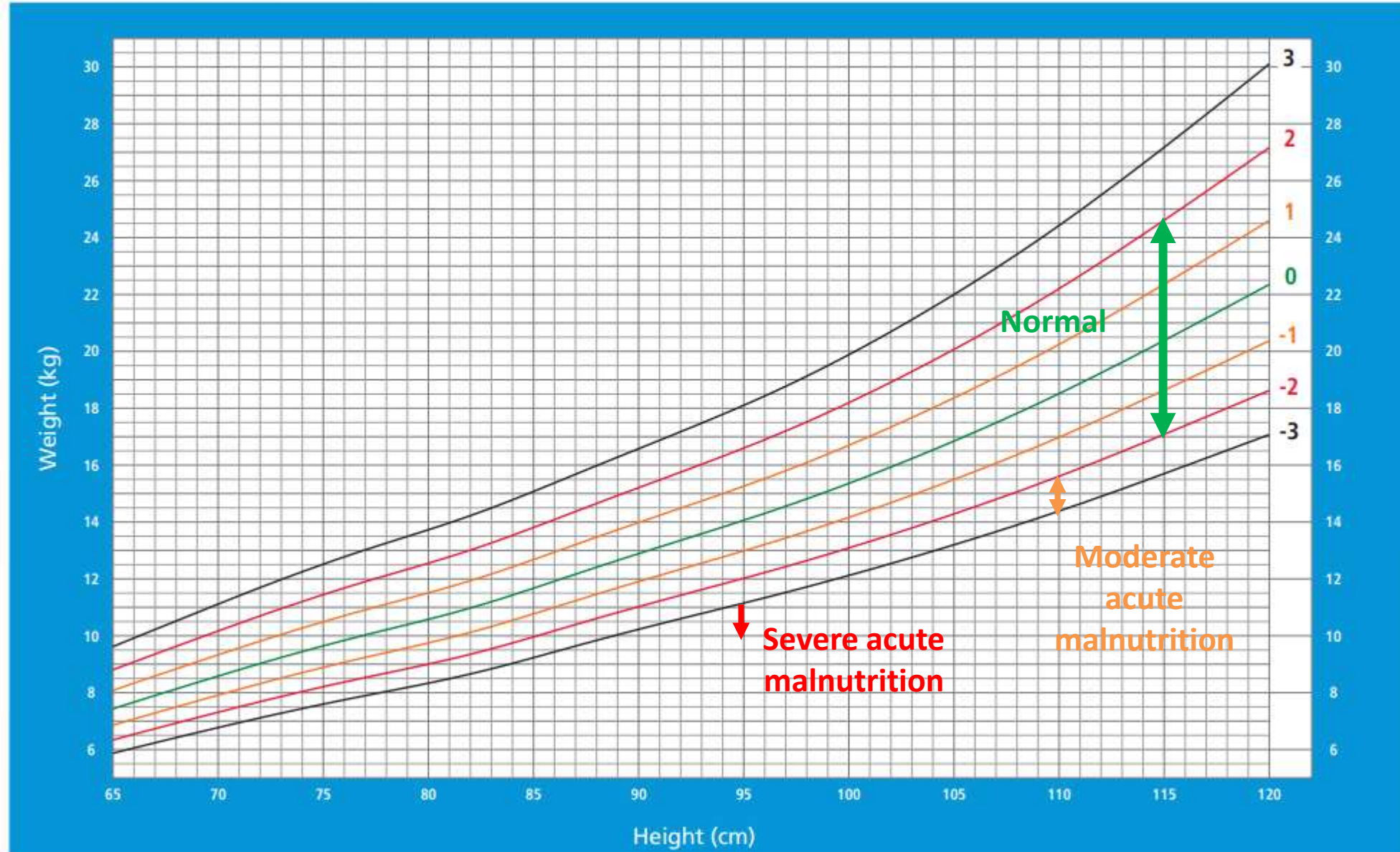


# Weight-for-height BOYS

2 to 5 years (z-scores)

## Nutritional status

- **Normal :**  
- 2 to 2 SD
- **Moderate acute malnutrition:**  
<-2 to -3 SD
- **Severe acute malnutrition:**  
< - 3 SD



# Acute malnutrition

How to determine if a child has acute malnutrition?

Anthropometry  
(Weight/Height)

- Digital scale
- Height board
- Trained and “standardized” staff
- Personal Protective Equipment



WHO



Ministerio de Salud y Protección Social, Colombia, 2017

# Acute malnutrition

## How to determine if a child has acute malnutrition?

Anthropometry  
(Weight/Height)



COVID-19  
context

Parameter	Assessment tool	Risk of transmission by contact (surface/people)	Recommended during COVID-19
Weight	Digital scale	<ul style="list-style-type: none"><li>• Digital scales are safe.</li><li>• The scale allows a child's weight to be measured while being held by an adult, standing on the scale with shoes, with no need to touch.</li><li>• Taring function is automatically initiated, without pressing any operational button.</li></ul>	YES
	Infant scale	The infant is undressed and placed on the surface, which may be contaminated.	NO

# Acute malnutrition

## How to determine if a child has acute malnutrition?

Anthropometry  
(Weight/Height)



COVID-19  
context

Parameter	Assessment tool	Risk of transmission by contact (surface/people)	Recommended during COVID-19
Height	Height board	<ul style="list-style-type: none"><li>• Height is measured standing upright or lying down.</li><li>• Child positioned flat on the board</li><li>• Caregiver normally requested to help keep the child's head straight.</li><li>• Child and mother highly in contact with the surface. Therefore, the height board should be disinfected after every use.</li></ul>	YES only if IPC protocols are in place and PPE available

WHO and UNICEF, 2020



# Acute malnutrition

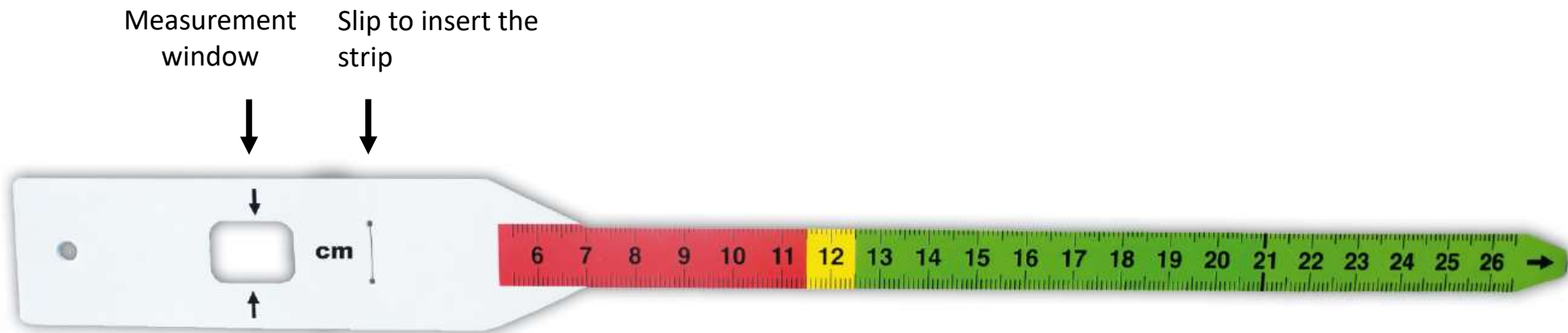
## How to determine if a child has acute malnutrition?

Mid-upper arm circumference

**MUAC measurement** is an indicator for acute malnutrition in children.

The **MUAC strip** is a flexible measurement band which indicates millimeters (mm).

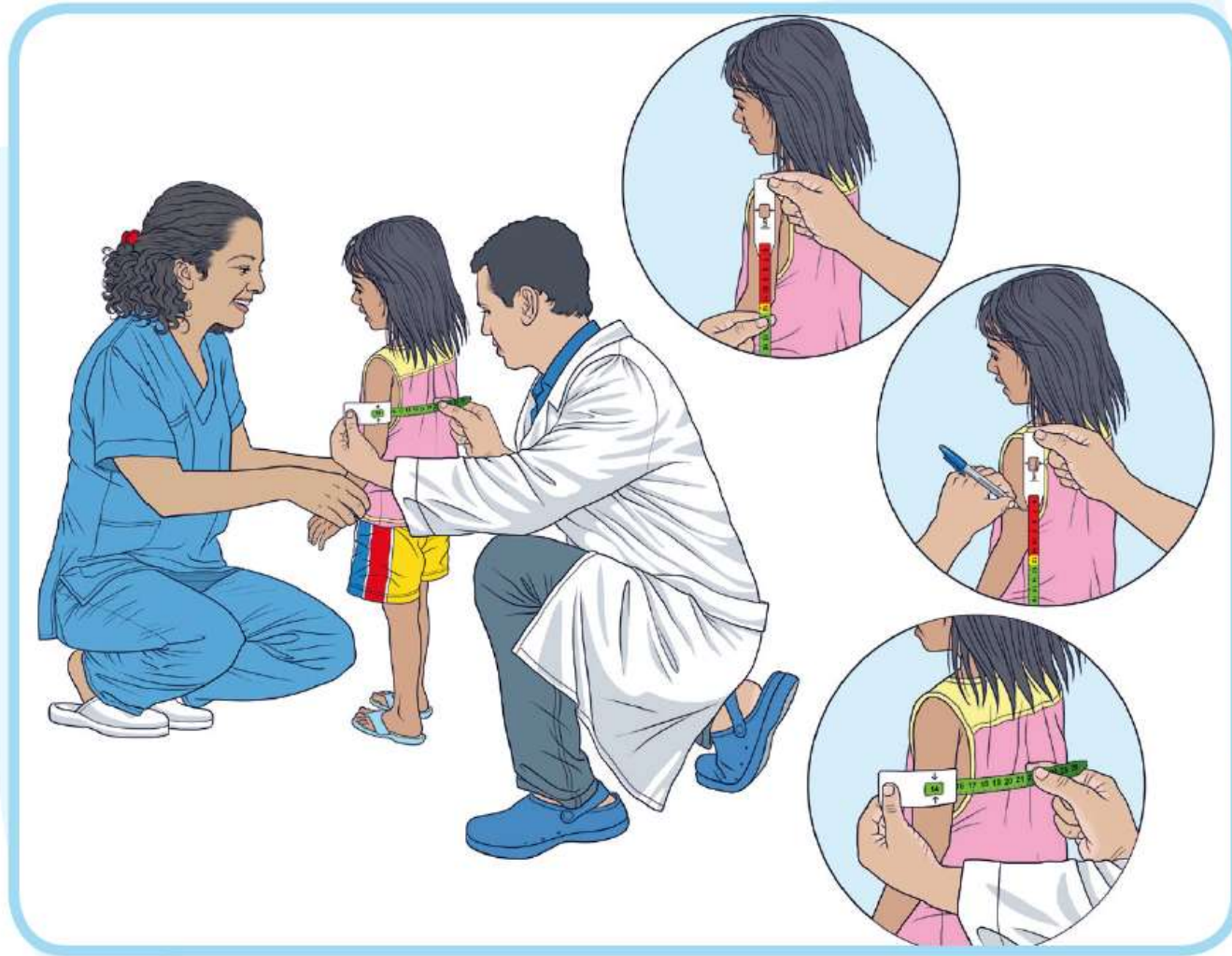
MUAC should only be used in children 6 to 59 months.



# Acute malnutrition

## How to determine if a child has acute malnutrition?

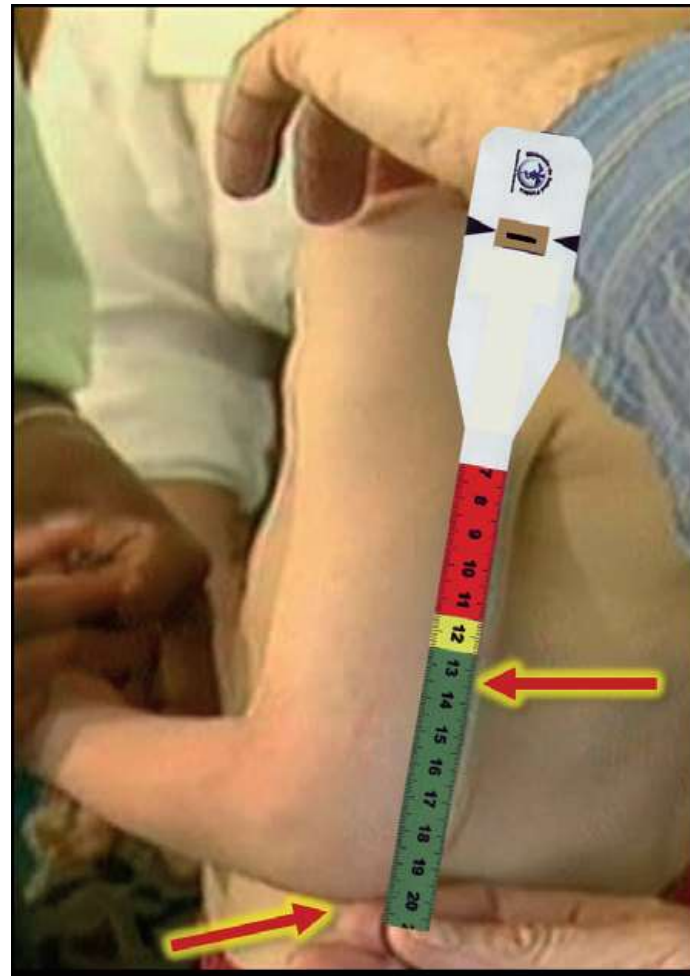
Mid-upper arm circumference



# Acute malnutrition

How to determine if a child has acute malnutrition?

Mid-upper arm circumference





# Acute malnutrition

## How to determine if a child has acute malnutrition?

Mid-upper arm  
circumference

**No acute malnutrition**

**>125 mm**

**Moderate acute malnutrition**

**Entre 115 y <125 mm**

**Severe acute malnutrition**

**<115 mm**



© UNICEF/UN0119069/Sokhin

# Acute malnutrition

## How to determine if a child has acute malnutrition?

Mid-upper arm circumference

“ All studies that have examined the relationship between anthropometry and mortality in representative population samples have consistently showed that **MUAC is more sensitive at high specificity levels than Weight for Height Z-scores (WHZ) for identifying children at high risk of death.**

Children identified as SAM cases by low MUAC gain both weight and MUAC in response to treatment. **The widespread use of MUAC has brought enormous benefits in terms of the coverage and efficiency of programs.**

**As a large high-risk group responding to treatment, children with low MUAC should be regarded as a public health priority independently of their WHZ.”**



# Acute malnutrition

## How to determine if a child has acute malnutrition?

Mid-upper arm  
circumference



COVID-19  
context

Parameter	Assessment tool	Risk of transmission by contact (surface/people)	Recommended during COVID-19
MUAC	Tape to measure mid-upper arm circumference	<ul style="list-style-type: none"><li>• Requires short-term but direct physical contact between the child and the health worker, physical proximity between health worker and caregiver, and contact with a surface (the MUAC tape).</li><li>• Can be used only if the MUAC tape can be disinfected after each use, or if a single-use MUAC tape is available, and if masks and gloves are available for health workers.</li></ul>	YES (MUAC tape must be disinfected after each use, or a single-use MUAC tape must be used for each child)

# Acute malnutrition

## How to determine if a child has acute malnutrition?

Oedema  
testing



PHOTO: UNICEF

### What is oedema?

- Unusual large quantity of liquid which accumulate in the child's tissue.
- Tissues fill with liquid and look swollen.

### How to evaluate oedema?

- With both thumbs, press on the upper part of both feet simultaneously for 3 seconds.
- The child has oedema if the dent remains in the child's foot when you take away the thumb.

**Severe acute malnutrition**

# Acute malnutrition

## How to determine if a child has acute malnutrition?

Oedema testing



COVID-19 context

Parameter	Assessment tool	Risk of transmission by contact (surface/people)	Recommended during COVID-19
<b>Oedema</b>	Physical assessment of the child's feet	<ul style="list-style-type: none"><li>• Requires short-term but direct physical contact between the child and the health worker and proximity with the mother.</li><li>• The indicator is a sign of severe acute malnutrition and highly related to the risk of mortality.</li><li>• Oedema can be measured only if masks and gloves and available for health workers.</li></ul>	<p>YES</p> <p>only if IPC protocols are in place and PPE available)</p> <p>otherwise assessment can be carried out by caregivers under health workers supervision</p>

WHO and UNICEF, 2020

# Acute malnutrition

## How to determine if a child has acute malnutrition?

Criteria to determine the cases of acute malnutrition

### Anthropometry (Weight/Height)

- **Normal :**  
- 2 to 2 SD
- **Moderate acute malnutrition:**  
<-2 to -3 to SD
- **Severe acute malnutrition:**  
< - 3 SD

### Mid-upper arm circumference

- **No acute malnutrition**  
>125 mm
- **Moderate acute malnutrition**  
Between 115 y <125 mm
- **Severe acute malnutrition**  
<115 mm

### Oedema testing

**Severe acute malnutrition**



# Acute malnutrition

## Medical complications

Medical complication	Case definition
Anorexia, poor appetite <sup>a</sup>	Child is unable to drink or breastfeed; failed RUTF appetite test.
Intractable vomiting <sup>a</sup>	Child vomits after every oral intake.
High fever	Child has high body temperature, or axillary temperature > 38.5°C, rectal temperature > 39°C.
Hypothermia	Child has low body temperature, or axillary temperature < 35.0°C, rectal temperature < 35.5°C.
Lower respiratory tract infection	Child has a cough with difficult breathing, fast breathing (if child is age 2–12 months: 50 breaths per minute or more; if child is age 12 months to 5 years: 40 breaths per minute or more), or chest indrawing.
Severe anemia	Child has palmar pallor or unusual paleness of the skin (compare the color of the child's palm with your own palm and with the palms of other children).
Skin lesion	Child has broken skin, fissures, flaking of skin.
Unconsciousness <sup>a</sup>	Child does not respond to painful stimuli (for example, injection).
Lethargy, not alert <sup>a</sup>	Child is difficult to wake. Ask the mother if the child is drowsy, shows no interest in what is happening around him or her, does not look at the mother or watch your face when talking, is unusually sleepy.
Hypoglycemia	There are often no clinical signs of hypoglycemia. One sign that does occur in a child with SAM is eyelid retraction: child sleeps with eyes slightly open.
Convulsions <sup>a</sup>	During a convulsion, child's arms and legs stiffen because the muscles are contracting. Ask the mother if the child had convulsions during this current illness.
Severe dehydration	Child with SAM has a recent history of diarrhea, vomiting, high fever or sweating, and recent appearance of clinical signs of dehydration as reported by the caregiver.



# Acute malnutrition

## Summary

### Acute malnutrition **with complications**

W/H < -2 SD **OR**  
Bilateral oedema **OR**  
MUAC < 115mm

Anorexia, Lower respiratory infection, severe dehydration, severe anaemia, Not alert

### **Severe acute malnutrition** without complications

W/H < -3 SD **OR**  
MUAC < 115mm

No oedema, appetite, clinically well, alert

### **Moderate acute malnutrition** without complications

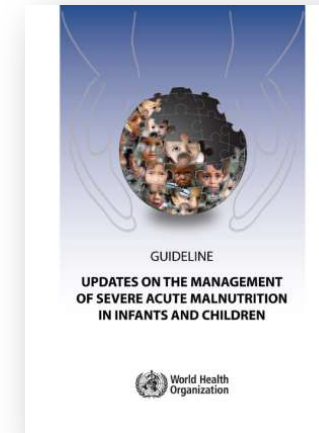
W/H < -3 to < -2 SD **OR**  
MUAC: 115- 125mm

No oedema, appetite, clinically well, alert

## 2. Basics of community management of acute malnutrition

# Basics of community management of acute malnutrition

- **Protocol** for the management acute malnutrition in children under 5
- **Trained staff** :
  - Diagnosis of acute malnutrition
  - Treatment until recovery
- Staff trained in **monitoring and follow-up of cases**
  - Record and follow-up of cases
  - Referral site
- **Supplies for acute malnutrition management:**
  - MUAC strips and/or anthropometry equipment for weight and height measurement
  - Nutrition supplies for treating acute malnutrition such as Ready-to-use-therapeutic food (RUTF)
- Referral system between different levels of the health system for complicated cases



# Basics of community management of acute malnutrition



UNICEF República Dominicana



## COVID-19 context

### Infection prevention and control measures

- Hand hygiene
- Personal protection equipment
- Respiratory hygiene
- Cleaning and disinfecting equipment and surfaces
- Supply chain management



- Use medical (surgical) mask
- Wear eye protection (goggles) or facial protection (shield)
- Wear long sleeve and clean gown
- Use gloves

# Basics of community management of acute malnutrition

## Identification of cases

### Anthropometry (Weight/Height)

- **Moderate acute malnutrition:**  
 $< -2$  to  $-3$  SD
- **Severe acute malnutrition:**  
 $< -3$  SD

### Mid-upper arm circumference

- **Moderate acute malnutrition**  
 Between 115 and  $<125$  mm
- **Severe acute malnutrition**  
 $<115$  mm

### Oedema testing

**Severe acute malnutrition**

#### AND all of the following:

- Appetite test positive
- No medical complications
- Child conscious and alert

# Basics of community management of acute malnutrition

## Identification of cases

Anthropometry  
(Weight/Height)

OR

Mid-upper arm  
circumference

OR

Oedema  
testing

- Moderate acute malnutrition:  
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- Severe acute malnutrition:  
< - 3 SD

- Moderate acute malnutrition  
Between 115 and <125 mm

- Severe acute malnutrition  
<115 mm

Severe acute  
malnutrition

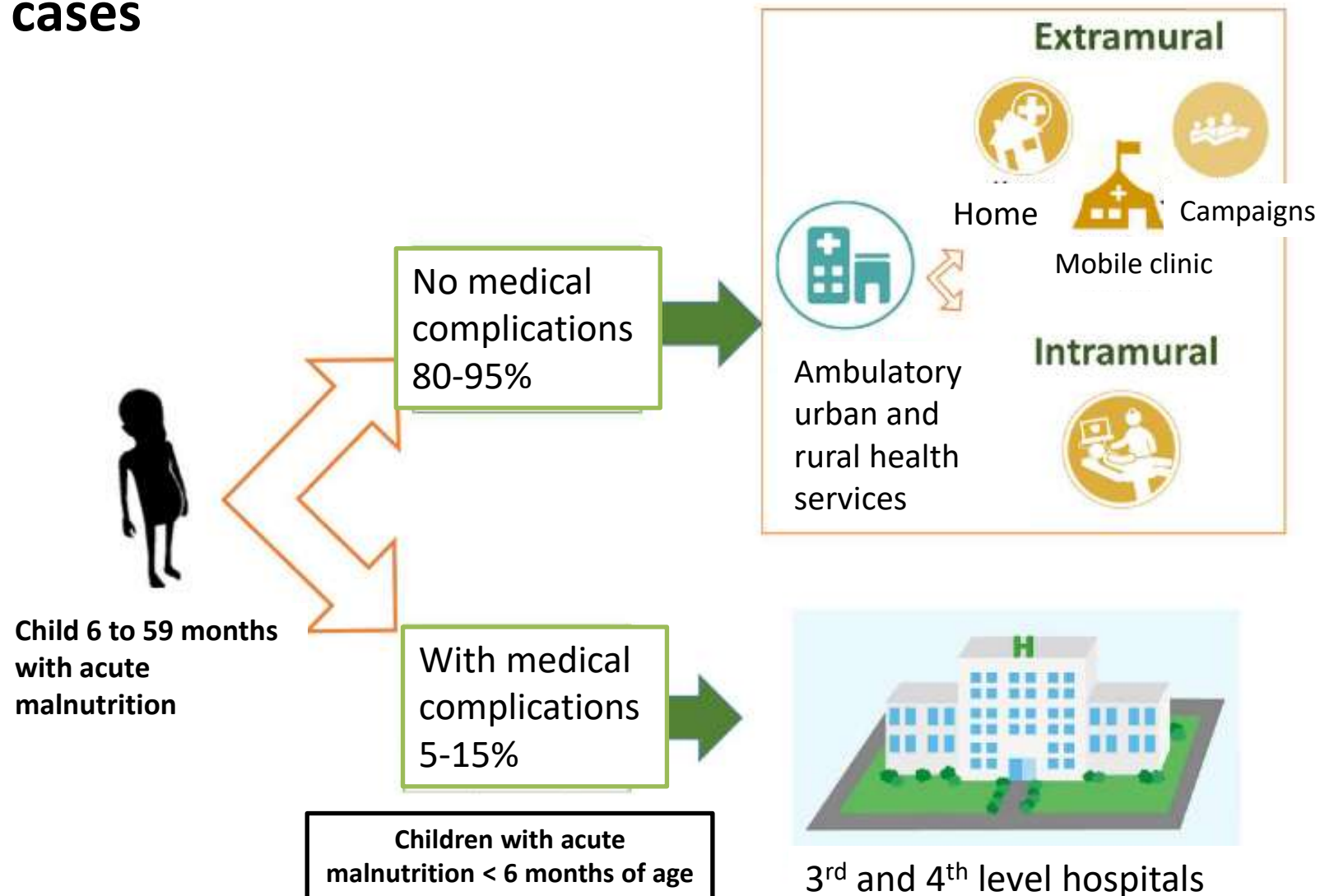
AND all of the following:

- Appetite test positive
- No medical complications
- Child conscious and alert

These are independant criteria for admission  
to treatment of acute malnutrition

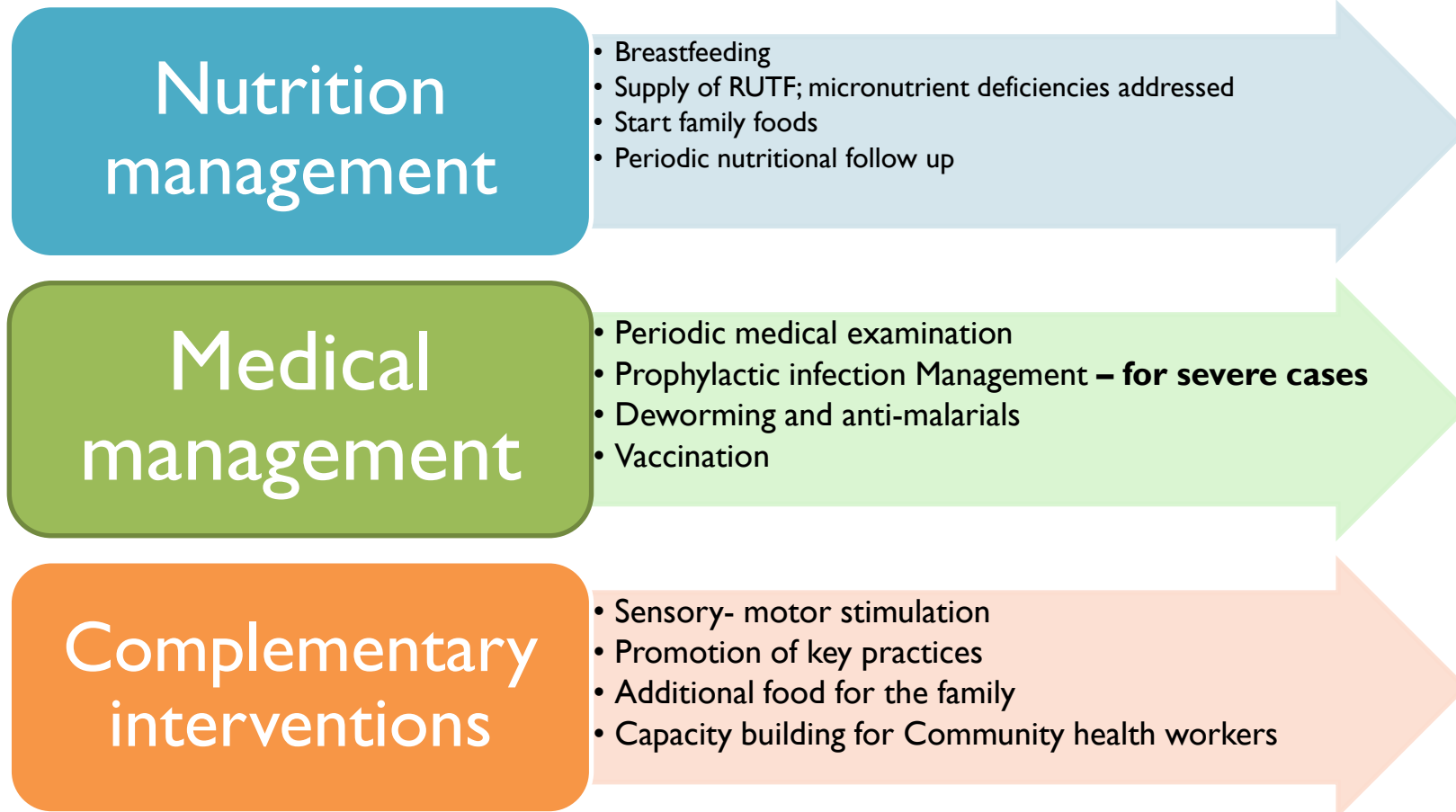
# Basics of community management of acute malnutrition

## Referral of cases



# Basics of community management of acute malnutrition

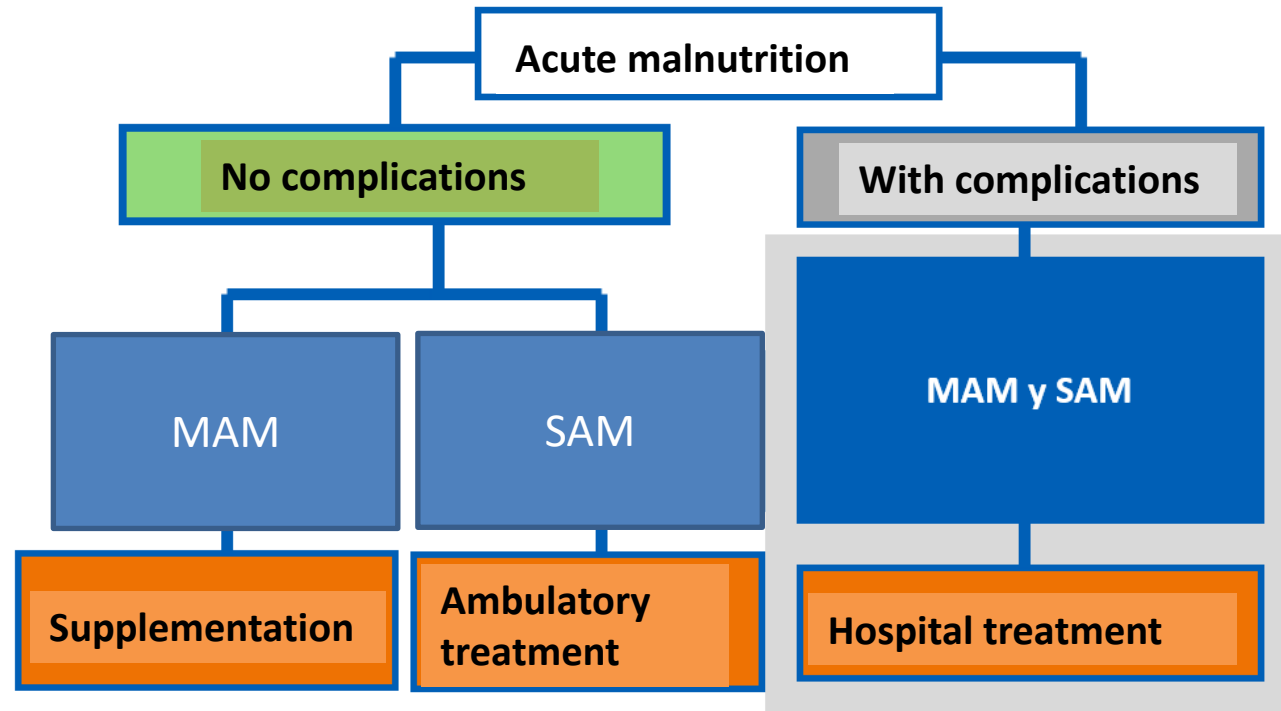
## Key elements of outpatient management





# Basics of community management of acute malnutrition

## Referral and treatment pre-COVID-19



Ready-to-use supplementary food



Ready-to-use therapeutic food



Therapeutic milk formula

# Basics of community management of acute malnutrition

## Outpatient treatment of severe acute malnutrition

- Ready-to-use specially formulated paste
- Provides high-quality protein, energy, and micronutrients
- More nutrient dense than available home foods
- 1 Sachet: 92g/ 500 Kcal
- Does not require preparation
- Very low moisture content
- Resistant to microbes
- Calculated based on the weight of the child.
- **Start with 100 Kcal/kg/day up to 200 Kcal/kg/day** according to the severity of the acute malnutrition.



**Ready-to-Use Therapeutic Food**

# Basics of community management of acute malnutrition

## Follow-up

- Review compliance with the Management plan
- Feeding recalls and evaluating family feeding practices
- Presence of illness in the last two weeks.
- Physical exam – detecting danger signs and signs of recovery
- Appetite test.
- Testing oedema.
- Measuring weight, height and MUAC.
- Medical and nutritional evaluation.

## Actions

- Adjust RUTF and liquids.
- Strengthen family key practices competencies.

## Alerts

- No positive evolution in 2 follow-up visits.
- Acute diarrhoea.
- Mother or caretaker have special need.



### 3. Simplified approaches to community management of acute malnutrition in the COVID-19 context

# Simplified approaches to community management of acute malnutrition

## Programatic adaptations to lower the risk of infection

What we are moving from	What we are moving to
MUAC screening conducted by Community Health Workers and other health center staff	<b>MUAC by Caregivers: caregivers are trained to screen their own children for malnutrition by measuring Mid-Upper Arm Circumference.<sup>1,2</sup></b>
Current treatment models propose two different but very similar products to treat SAM (RUTF) and MAM (RUSF).	<b>Treating of wasted children, without complications, with the one product – RUTF in one harmonised programme with one associated data collection mechanism.<sup>3,4,5</sup></b>
Under current protocol RUTF dosage increases over the course of treatment and is based on weight.	<b>2 sachets/day for uncomplicated severe wasting and 1 sachet/day for uncomplicated moderate wasting as determined by MUAC or oedema status.<sup>6,7</sup></b>
Current treatment protocol calls for weekly follow-up visits for children receiving treatment.	<b>Reducing the regularity of follow-up visits for wasted children admitted into treatment from weekly to bi-weekly or monthly.<sup>8</sup></b>
Admissions criteria by MUAC and/or oedema and/or weight for height.	<b>Use of a single anthropometric criteria (&lt;120mm or &lt;125mm MUAC and/or oedema) to define and facilitate the enrollment and follow-up of children suffering from wasting and other forms of acute malnutrition in need of treatment.<sup>9,10,11,12</sup></b>
Treatment of children with uncomplicated wasting takes place in a health facility.	<b>Enabling and empowering community health workers (CHWs) to treat uncomplicated wasting in the communities.<sup>13,14,15,16</sup></b>



# Simplified approaches to community management of acute malnutrition

Programatic adaptations to lower the risk of infection

## Why Family MUAC?

- Caregivers to identify early signs of malnutrition in their children using a simple to use Mid-Upper Arm Circumference (MUAC) tape.
- Mothers (or other family members) can do this task as effectively as Community Health Workers (CHWs)
- Malnutrition detected earlier
- Less hospitalizations
- Potential to save money and valuable time for health workers.
- Support and empower the community.





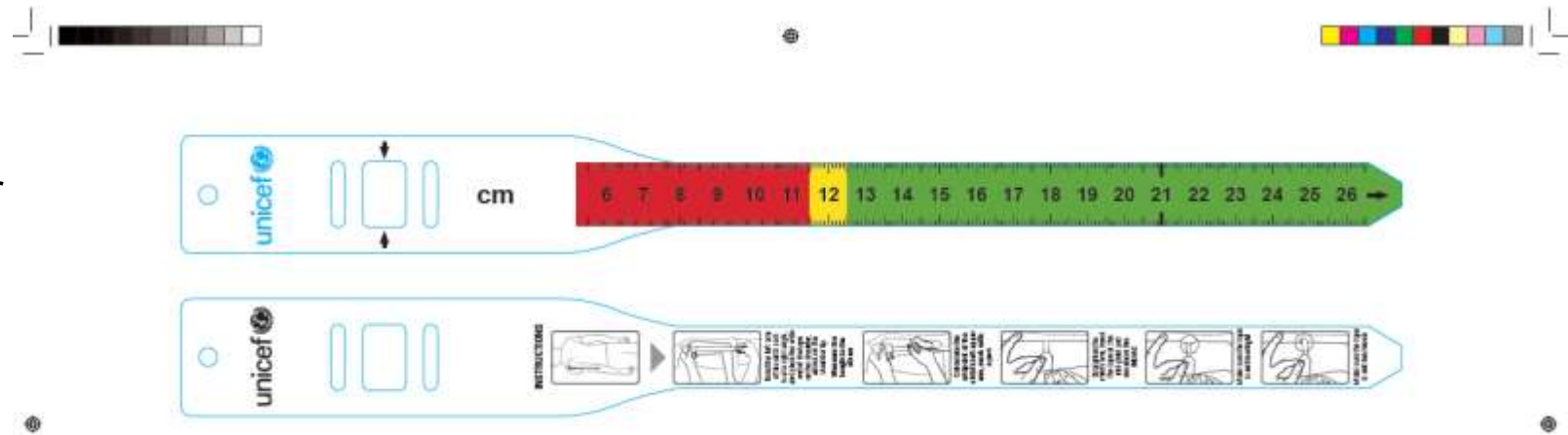
# Simplified approaches to community management of acute malnutrition

## Programatic adaptations to lower the risk of infection

### Child MUAC tape design updated to make it easier for caregivers to use.

- New MUAC tape design specifically developed for use by caregivers:
  - double-sided
  - featuring user instructions on the reverse side to guide caregivers in monitoring their infants and children for acute malnutrition at home.
- MUAC Tape and print specifications available online and tapes can be printed by and procured from local print houses.

Non-tear stretch-resistant material eg. plasticized / synthetic paper using polypropylene, polyethylene.  
 Minimum thickness 0.3mm.  
 Print: Permanent, resistant to solvents, such as alcohol-based hand sanitizer; easily readable in low light working situations.  
 Pantone specs:  
 Colour-coded as follows:  
 Red (Pantone code 1795 C) from 0 to 11.5 cm,  
 Yellow (Pantone code 107 C) from 11.5 to 12.5 cm,  
 Green (Pantone code 369 C) from 12.5 to 26.5 cm.  
 Includes UNICEF logo in pantone Cyan Process R56 / G142 / B199

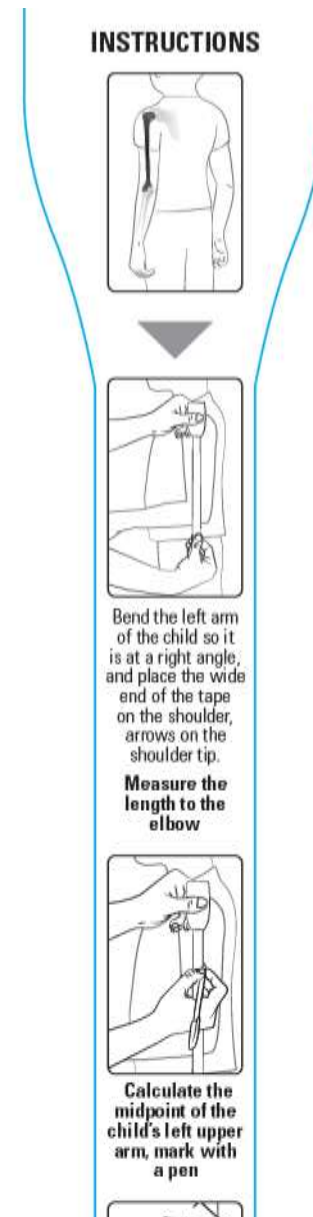


# Simplified approaches to community management of acute malnutrition

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# Simplified approaches to community management of acute malnutrition

## Expected outcomes

Increase coverage
Increase early detection of children with acute malnutrition
Decrease defaulting amongst children enrolled in programs
Decrease cost per child cured
Improve continuum of treatment
Reduce opportunity costs for caregivers/population
Increase capacity of health staff on management of acute malnutrition
Increase integration of treatment into community health structures
Increase integration of management of wasting into health systems



Increase effectiveness and cost-effectiveness



Contribute to reducing mortality and improve child development at the population level

# Simplified approaches to community management of acute malnutrition

## Migration context

### Borders (shelters)

#### Diagnosis

- Early detection of children under 5 with wasting (under twos in priority)
- Screening of Acute Malnutrition by the family

#### Admission/Discharge

- Empower community health workers to treat child wasting in the community
- Use of a single, easy to use criteria (MUAC) for admission and discharge from therapeutic treatment

#### Treatment

- Adoption of a single product (RUTF) for all children with wasting in need of therapeutic treatment
- Optimizing the amount of RUTF used for the treatment of child wasting
- Reduced visits to health facility during treatment

Mobile  
clinics

### In transit

#### Border:

- Possibility to hand out MUAC strips to caregivers of children under 5 years
- Train caretakers to identify acute malnutrition with the MUAC strip

### In host communities

#### Diagnosis

- Early detection of children under 5 with wasting (under twos in priority)
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Ambulatory health  
services

# Simplified approaches to community management of acute malnutrition

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Mobile  
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### In transit

#### Border:

- Possibility to hand out MUAC strips to caregivers of children under 5 years
- Train caretakers to identify acute malnutrition with the MUAC strip

Review existing  
national protocol

Develop simplified protocol  
if no national protocol  
available

### In host communities

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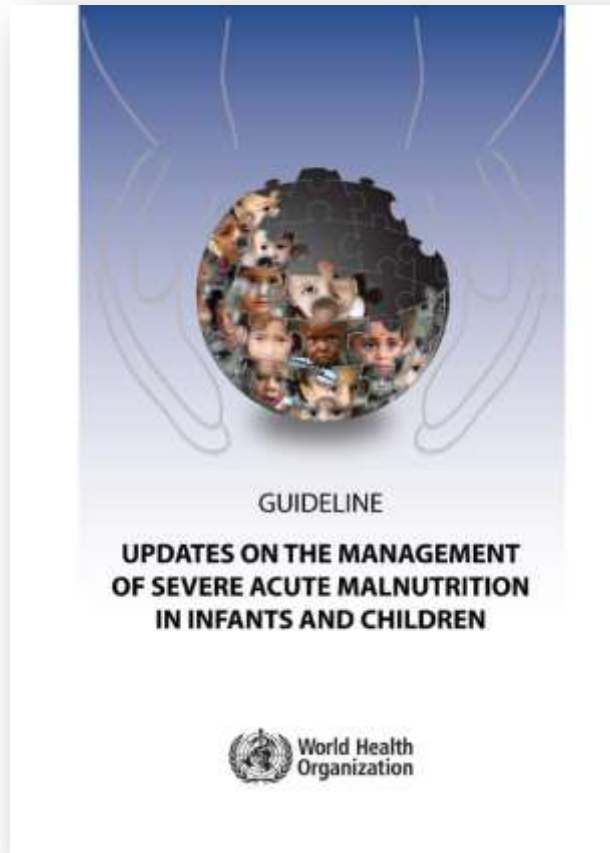
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Ambulatory health  
services

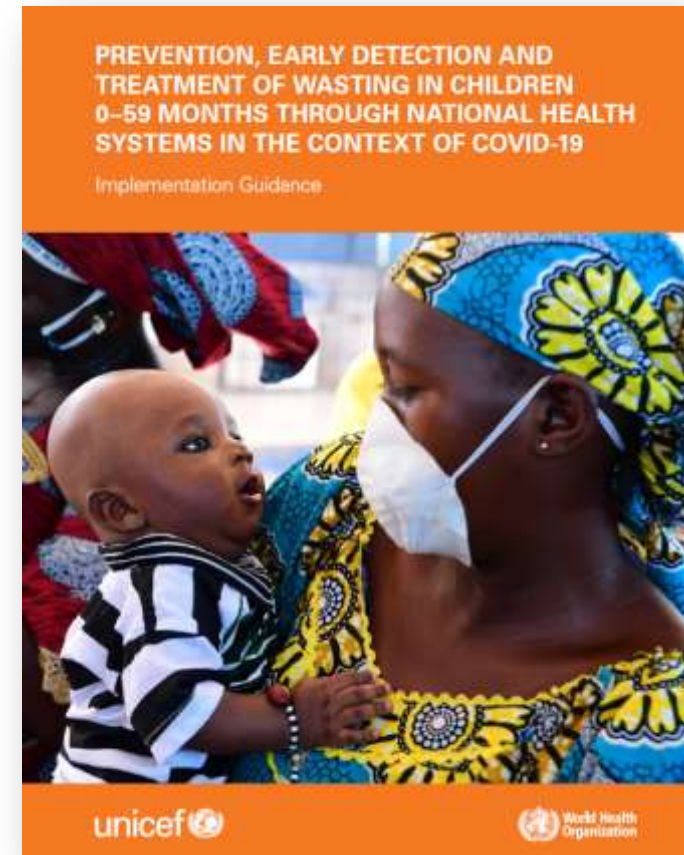
## 4. Resources



# Resources



WHO, 2013



WHO and UNICEF, 2020

# Resources



International Rescue Committee and UNICEF, 2020



UNICEF, 2020

# Resources

## New MUAC tape specifications

### Associated documents

#### Resource title

New Design for the Mid-Upper Arm Circumference (MUAC) Tape

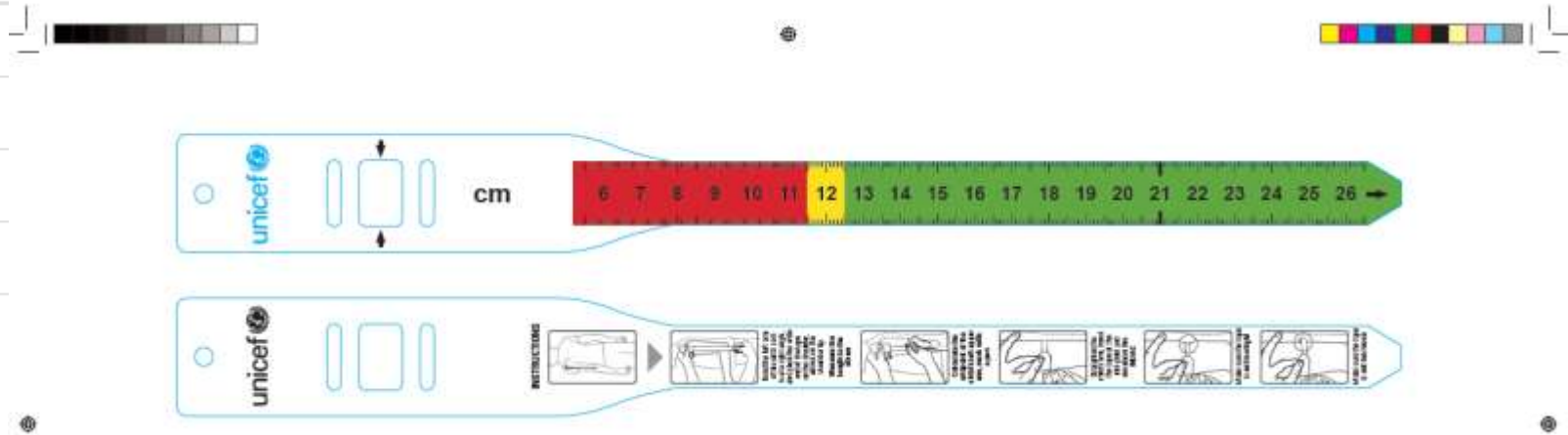
Print file: English. New Design for MUAC Tape

Print file: French. New Design for MUAC Tape

Print file: Arabic. New Design for MUAC Tape

Print file: Spanish. New Design for MUAC Tape

Non-tear stretch-resistant material eg plasticized / synthetic paper using polypropylene, polyethylene.  
 Minimum thickness 0.3mm.  
 Print: Permanent, resistant to solvents, such as alcohol-based hand sanitizer; easily readable in low light working situations.  
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<https://www.acutemalnutrition.org/en/resource-library/2YtJUUryLhuqV0MBo5B6v7>

# Resources

## Family MUAC

### The approach

- [CORTASAM Recommandation sur l'usage du périmètre brachial au sein de la communauté](#)
- [The MUAC for Mothers Approach : ALIMA](#)
- [The Family MUAC Approach: Action Against Hunger Senegal](#)
- [Stratégie PB ménage dans le Département de Linguere \(Louga, Senegal\)](#)
- [The Family-MUAC approach: World Vision in Mauritania](#)
- [GOAL Presentation: Family MUAC approach](#)

### Case studies

- [Family MUAC: COOPI in DRC - Case Study](#)
- [The Family-MUAC approach: GOAL](#)

### Tools

- [The Family MUAC Approach: The Click-MUAC Project](#)

### Trainings

- [Mother-MUAC Teaching Mothers To Screen For Malnutrition \(ALIMA, training\)](#)
- [GOAL: Training guide for Family-MUAC approach](#)
- [World Vision: Mother-led MUAC tools](#)

### M&E tools

- [GOAL Family MUAC M&E Toolkit](#)
- [IMC M&E tools for the Family MUAC approach](#)
- [CRF M&E tools and training \(contact \[anne-sophie.desmaris@croix-rouge.fr\]\(mailto:anne-sophie.desmaris@croix-rouge.fr\)\)](#)

And for more information:

<https://www.acutemalnutrition.org/en/Family-MUAC>

# Post webinar evaluation

# Questions and answers