



# Mass MUAC screening – Instruction for data collection and reporting

# Why MUAC ?

- To find and refer the children eligible for nutrition treatment.
- The secondary purpose is to use screening data to better understand nutrition situation in the area.






- If exact age can not be collected, then establish whether
  - (1) the child is in the eligible age range (e.g., 6-59 months), and
  - (2) whether the child is above or below 2 years of age

## Approach 1(children 6 – 59 months)

- Use tally sheet on the **2. Tally Sheet** tab of the Excel file to find malnourished children and refer to nutrition services only.

A17




  

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Nutrition Assessment Tally Sheet (MUAC)													
2														
3	Date: _____													
4	Location (State/ County): _____													
5														
6	Males													
7		Oedema	<115 mm	115-124 mm			≥125 mm							
8	< 2 Years Old	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
9		00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
10		00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
11		00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
12	≥ 2 Years Old	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
13		00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
14		00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
15		00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
16														
17														
18		Oedema	<115 mm	115-124 mm			≥125 mm							
19		00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
20		00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	

## Approach 2 (children 6 – 59 months)

- Use the sheet on **4. Tally sheet 2 Optional**
- Using this tally sheet requires recording exact MUAC measurement of each child, and then entering these data into Excel using the same format as the sheet on **4. Tally sheet 2 Optional** page.
- Highly recommended
- Using this option is especially useful if doing exhaustive door-to-door outreach screenings.

R18


  

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	MUAC SCREENING MEASUREMENT and TALLY SHEET																		
2																			
3	Village / Camp / Location:..... Measurer:..... Date: .....																		
4	INSTRUCTIONS:																		
5	Determine if the child is 2 years or older or below 2 years of age, and use the left side for children less than 2 years old and the right side for children 2 years or older. Record the sex of the child in the first column (Male or Female). Record the MUAC measurement, to the nearest mm, in the 'MUAC measurement' column. Mark an 'X' in EITHER the normal or moderate or severe column as per the MUAC measurement. Check for Oedema and record in the last column.																		
6	Add the totals in the last row.																		
7	6 Months - <2 Years Old							≥ 2-5 Years Old											
8	Child No	Sex (M / F)	MUAC measurement (to nearest mm)	Normal ≥125mm (Green)	Moderate 115-124mm (Yellow)	Severe <115mm (Red)	Oedema (Y / N)	Child No	Sex (M / F)	MUAC measurement (to nearest mm)	Normal ≥125mm (Green)	Moderate 115-124mm (Yellow)	Severe <115mm (Red)	Oedema (Y / N)					
9	1							1											
10	2							2											
11	3							3											
12	4							4											
13	5							5											
14	6							6											
15	7							7											
16	8							8											
17	9							9											
18	10							10											
19	11							11											
20	12							12											

If you are doing MUAC screening of pregnant and lactating women, use **5. Tally sheet PLW** sheet in attached Excel file for data collection in the field.



A1

Nutrition Assessment Tally Sheet (MUAC) - PREGNANT AND LACTATING WOMEN

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Nutrition Assessment Tally Sheet (MUAC) - PREGNANT AND LACTATING WOMEN													
2	Date: _____													
3	Location (State/ County): _____													
5	<230mm							≥230 mm						
6	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
7	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
8	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
9	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
10	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
11	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
12	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
13	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
14	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
15	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
16														
17	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
18	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
19	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000



## Data reporting

- For reporting you will only use attached excel file
- First, fill out carefully all fields on the sheet **1. Title Page**.  
Note, your report will not be accepted unless sheet **1. Title Page** is filled out

A9 Type of the population screened: (1) only local population, (2) both local and displaced population, (3) only displaced population

	A	B	C
1	Please review all fields and modify according to your setting		SMART
2			
3	Background		
4	Date(s) of Assessment		
5	Ministry/ NGO/ Agency supporting the assessment		
6	Zone		
7	Woreda		
8	Kebele		
9	Type of the population screened: (1) only local population, (2) both local and displaced population, (3) only displaced population		
10	Brief description of the screening setting: (1) door-to-door outreach community screening for referral, (2) screening of all children combined with the vaccination campaign, (3) hospital (4) fixed health center or health post, (5) mobile health team, (6) food or commodity distribution point, (7) other setting -- describe		
11	If screening at health facility or by mobile health team, indicate whether: (1) only sick children were screened, or (2) healthy children coming for check-up visits or vaccination were screened as well as the sick		
12	Who measured children?: (1) community volunteers, (2) medical staff (nurses, doctors), (3) other -specify		
13	Age ranges included (months)		
	How did you determine age? Did you use:		

## For Approach 1

- If you used sheet **2. Tally Sheet** for data collection in the field, enter the tallied numbers from your format into the table on sheet **3. Results** of the attached Excel file. Follow instructions provided under the table, they are very simple and self-explanatory. Stop here, you are ready to send your report.



MUACAssessmentTemplate_Final 2021 - Excel									
FileHomeInsertPage LayoutFormulasDataReviewViewDeveloperPower PivotTell me what you want to do...Yodit MekashaShare									
J3	Percent of children over 2 years of age in the sample								
	A	B	C	D	E	F	G	H	I
1	Nutrition Assessment Results								
2									
3			Males		Females		Total		Weighted Total**
4			N	%	N	%	N	%	%
5	< 2 Years Old	Oedema		#DIV/0!		#DIV/0!	0	#DIV/0!	
6		<115 mm		#DIV/0!		#DIV/0!	0	#DIV/0!	
7		115-124 mm		#DIV/0!		#DIV/0!	0	#DIV/0!	
8		≥125 mm		#DIV/0!		#DIV/0!	0	#DIV/0!	
9		Total	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	
10	≥ 2 Years Old	Oedema		#DIV/0!		#DIV/0!	0	#DIV/0!	
11		<115 mm		#DIV/0!		#DIV/0!	0	#DIV/0!	
12		115-124 mm		#DIV/0!		#DIV/0!	0	#DIV/0!	
13		≥125 mm		#DIV/0!		#DIV/0!	0	#DIV/0!	
14		Total	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	
15	Total	Oedema	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	#DIV/0!
16		<115 mm	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	#DIV/0!
17		115-124 mm	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	#DIV/0!
18		≥125 mm	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	#DIV/0!
19		Total	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	#DIV/0!
20									
21	Instructions: Fill in the cells that have a white background (C5-C7, C9-11, E5-7, E9-11). The rest of the cells will be filled in automatically.								
22									
	** MUAC shows a known bias towards younger children. In a balanced sample we expect approximately two thirds (~66%)								
	1. Title Page	2. Tally Sheet	3. Results	4. Tally sheet 2 Optional	5. Taly sheet PLW				

## For Approach 2

- If you used sheet **4. Tally sheet 2 Optional** for data collection in the field, first enter the data from your tally sheets into Excel file attached, page **4. Tally sheet 2 Optional**. After entering the data, count the numbers of children and enter them in the table on page **3. Results**. Stop here, now you are ready to send your report.

# Data interpretation

- Interpretation of data collected in MUAC screenings is a very complex process, and depends on many factors –
  - the setting,
  - sample size,
  - quality of data,
  - representativeness by age and sex,
  - coherence with other available data, etc. It will be conducted by nutrition technical staff at higher levels



## Example 1

AAH planned mass MUAC screening for children 6 – 59 months and PLW mothers in Keyhe- Tekli woreda, Kebele X on August 3<sup>rd</sup>, 2021. Kebele x has population of 1,293 individuals, host community in normal living arrangement. The population conversion factor for 6 – 59 months children in the woreda in 12.5%. The screening is planned to be conducted door to door by community outreach workers.



At the end of the day the community outreach workers screened 162 children 6 – 59 months and 44 PLW mothers.

From the 162 children and  
44 PLWs

### Activity

Fill out the CDC MUAC tool,  
Excel, sheet 4 accordingly.

		Males	Females
< 2 Years Old	Oedema	1	0
	<115 mm	2	1
	115-124 mm	13	9
	≥125 mm	21	23
≥ 2 Years Old	Oedema	0	0
	<115 mm	0	0
	115-124 mm	6	4
	≥125 mm	39	43

<230mm	18
≥ 230mm	26

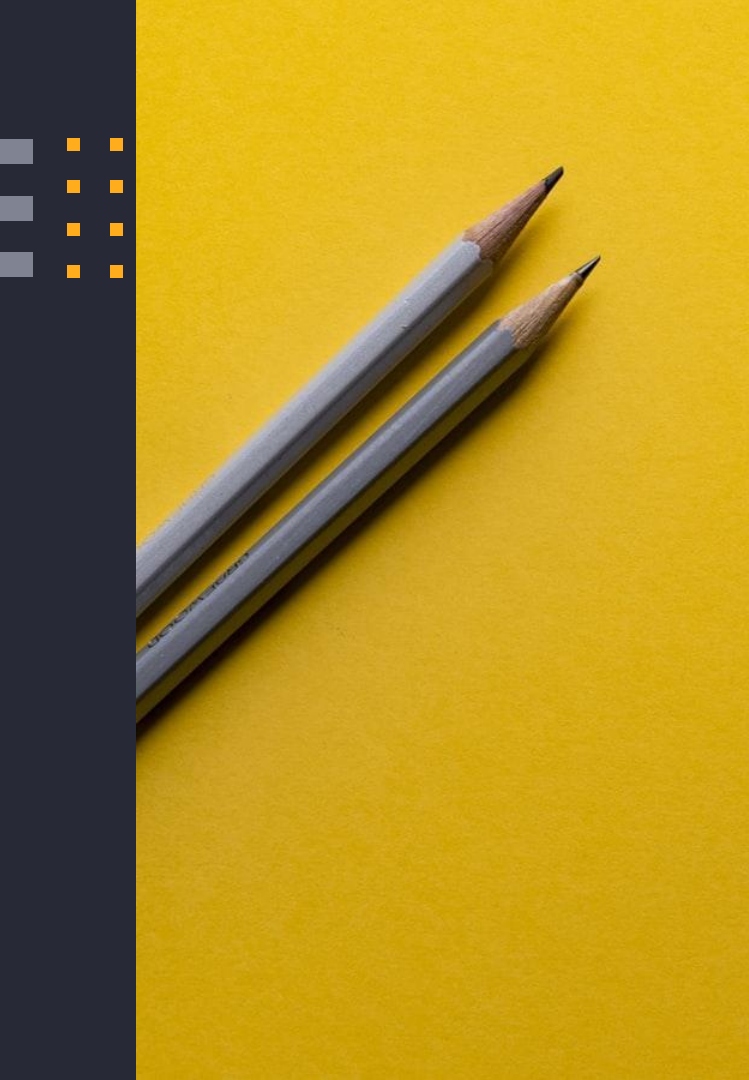


## Example 2

SCI planned to conduct exhaustive mass MUAC screening in Finote Birhan IDP camp in Adigrat using community outreach workers. The IDP site has 69,752 individuals. The IDP site has 12,235 children 6 – 59 months and 5,324 PLWs.

Use approach 1 to analyse and report your data (come up with the result for the exercise)





# Thanks!

**Any questions?**