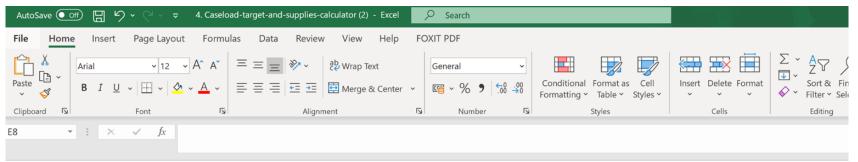
Caseload and supply calculator

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CASELOAD AND SUPPLY CALCULATOR



This tool was developed by the Global Simplified Approaches Working Group. For other similar tools and resources, please visit www.simplifiedapproaches.org

SIMPLIFIED APPROACHES

Burden, Caseload and RUTF supply calculator

When modifying admissions criteria and/or dosage of RUTF for treating child wasting, estimations of the number of children eligible for admission as well as the quantity of RUTF will be affected.

Based on existing approaches to calculate both caseload and RUTF consumption, this tool helps to provide rough estimates based on population data, prevalence data and context specific variables such as coverage, incidence and consumption. This tool will only provide an estimated forecast of needs over the period of 1 year. Estimations should be compared against previous annual admissions and if large discrepancies are found, modifications should be made to the variable data points. Actual consumption should be monitored throughout the intervention to avoid stock-outs.

Guiding notes can be found at the top of tabs 1 (data entry) and 2 (variables). All other tabs are calculations based on the data entered into these two 'abs. If the pivot tables on tab 4 (analysis) do not refresh, simply refresh the data by clicking 'Refresh' in the PivotTable tab.

The calculations are based on the following formulas;

Burden = population 6–59 months × [prevalence × (1 + K)] *

Caseload = Burden × Coverage

Supply Needs = Caseload × (# of sachets / 150)

Definitions

Burden: The number of vichildren in the catchment

Caseload: The number c children targetted or expe treatment by the service i catchment area

Supply Needs: The num cartons of RUTF needed treatment over the course

Prevalence: The proport wasted children at a given time

Incidence: The rate of or wasting over the course of

WHY HAVE WE DEVELOPED THIS TOOL?

• To help implementers understand the programmatic implications of increasing the MUAC cut-off, using MUAC (and oedema) as the only admissions and using one treatment product.

WHO IS THIS TOOL FOR?

Implementers who are considering the combined protocol

WHEN SHOULD THIS TOOL BE USED?

 At the inception or planning phase, to understand the operational implications and to assess what resources (financial & HR) would be needed

HOW WAS THE TOOL DEVELOPED?

• Using the existing approach to calculating the number of children expected which is based on population & prevalence data, combined with incidence and coverage. The tool calculates the burden, caseload and supply needs of standard services (i.e what is currently being implemented) vs. modified admissions and dosage

HOW ACCURATE ARE THE ESTIMATIONS?

 Estimating caseload and supply needs is imperfect and these forecasts should be carefully monitored and importantly revised according to any contextual changes

SIMPLIFIED APPROACHES

DATA ENTRY

Example data given to demonstrate how the tool works. Delete information in rows 5-9 before entering your own data.

Country	Admin 1 (Region)	Admin 2 (Health District)	Total population	Prevalence WHZ<-	Prevalence MUAC <115mm	Prevalence WHZ <-2	Prevalence MUAC <125mm
Please enter country name below	Please enter the name of the region below	Please enter the name of the health district below	Please enter the total population for the health district below	Please enter prevalence from the latest survey based on weight for height <-3	Please enter prevalence from latest survey based on MUAC <115	Please enter prevalence data from latest survey based on all children weight for height <-2 (otherwise referred to as GAM)	MUAC <125 (i.e. both SAM
Buranda	Fonte	Bella	289,000	3.5%	1.5%	12.0%	5.3%
Buranda	Fonte	Inoto	231,190	3.5%	1.5%	12.0%	5.3%
Buranda	Fonte	Exila	132,317	3.5%	1.5%	12.0%	5.3%
Buranda	Vala	Falluto	61,923	3.5%	1.5%	12.0%	5.3%
Buranda	Vala	Bangora	129,980	3.5%	1.5%	12.0%	5.3%

VARIABLES

Assess whether the variables pre-entered below (Row 5) are relevant for your context. Adapt where more context specific data is available

Children 6-59 months as percentage of total population %		Expected or target programme coverage for children <125mm, %		Number of sachets per one beneficiary - Standard dose	Number of sachets per one beneficiary - Modified dose
Use proportion of children 6-59 months from the latest demographic survey. If no such data exists, estimate as 20% of the population (in low income countries only)	Enter here target or expected coverage	expanded group of children,	evidence calculates wasting incidence to be 3.6. Country	sachets) is estimated per child for recovery from severe	On average children receive between 60- 85 sachets for recovery using a modified dosage on a MUAC only programme admitting children <125mm. Ammend figure with context specific data where available
20.09	70%	60%	4.6	150	70

^{*}Given the lack of data on wasting in the 115-125mm children, one incidence factor is applied to the estimates of burden in this population, being the same as that used for severe wasting. As more data becomes available, this tool should be modified to reflect the latest findings

^{**} Isanaka S, Andersen CT, Cousens S, et al Improving estimates of the burden of severe wasting: analysis of secondary prevalence and incidence data from 352 sites BMJ Global Health 2021

CALCULATIONS

Burden: # of children			
. T	Standard protocol for severe wasting	MUAC <125m m	
⊟Buranda	27,190	41,173	
Fonte	21,011	31,816	
Bella	9,306	14,092	
Inoto	7,444	11,273	
Exila	4,261	6,452	
⊟ Vala	6,179	9,357	
Falluto	1,994	3,019	
Bangora	4,185	6,338	
Grand Total	27,190	41,173	

Caseload: # of children			
-T	Standard protocol for severe wasting	MUAC <125m m	
■ Buranda	19,033	24,704	
Fonte	14,707	19,090	
Bella	6,514	8,455	
Inoto	5,211	6,764	
Exila	2,982	3,871	
■Vala	4,326	5,614	
Falluto	1,396	1,812	
Bangora	2,930	3,803	
Grand Total	19,033	24,704	

Supply Needs: # of cartons of RUTF			
-T	Standard protocol for severe wasting	All children <125mm with modified dosage	
■ Buranda	19,033	11,529	
Fonte	14,707	8,909	
Bella	6,514	3,946	
Inoto	5,211	3,156	
Exila	2,982	1,806	
⊟Vala	4,326	2,620	
Falluto	1,396	845	
Bangora	2,930	1,775	
Grand Total	19,033	11,529	

VISUALISATIONS

