Analysis of the Joint Child Malnutrition Estimation Dataset Worldwide.										
	Overview	Key Questions	Stunting Analysis	Wasting Analysis	Overweight Analysis	Global Malnutrition	Conclusion		Contact	
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Objective: The JME include available for stunting and to wasting and underweight) of	overweight. The objective									
Scope: SDG target by 203	0, end all forms of malnu	trition, including achievi	ng, by 2025, the internatio	onally agreed targets on stu	unting and wasting in chi	ldren under five years of	age.			
Why the analysis:										
Every child has the right to over generations. The past jeopardize children's abili	decade has seen essentia									
All forms of malnutrition a under growing threat as m and child nutrition – espec	any countries plunge dee	p into a global food and r	nutrition crisis fuelled by p	poverty, conflict, climate of	change and the enduring					

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Key Questions:

- · Which countries are affected most by child nutrition?
- · Identify the number of deaths and affected due to mall nutrition.
- · Does progress in reducing stunting equal across regions and sub-regions?
- · Find the trend in the country's income and malnutrition growth.
- SDG target by 2030, including achieving 2025 the internationally agreed target to end all forms of malnutrition, stunting and wasting in children under five years of age. Will this target be achievable by the trends in the dataset?



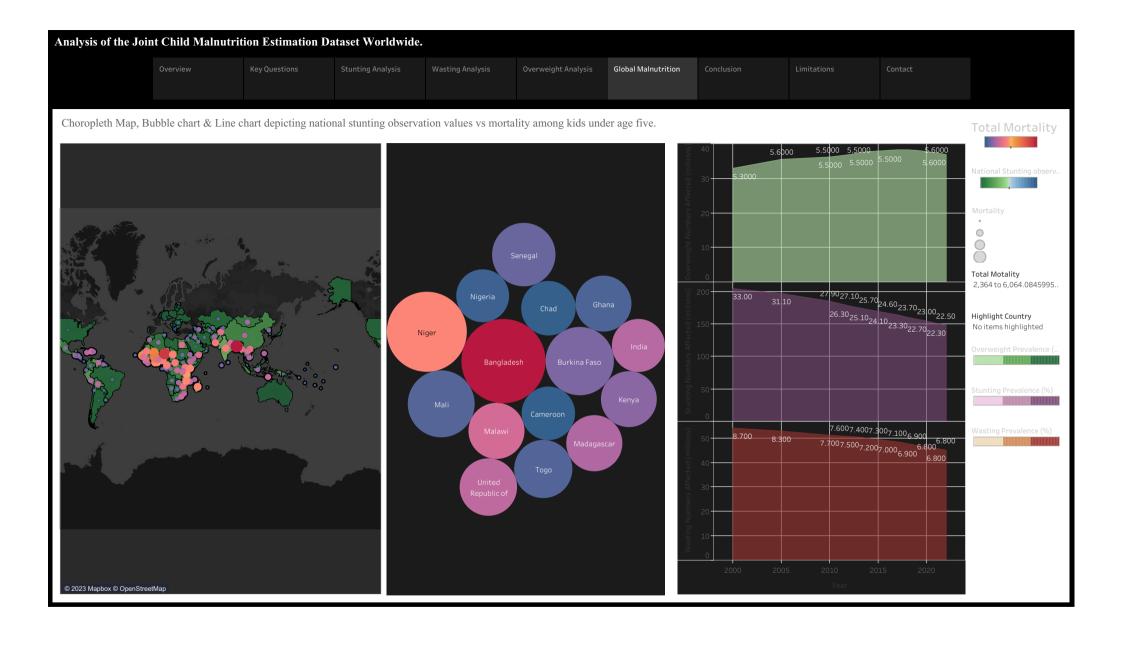
Data Source

- · The UNICEF, WHO, and the World Bank inter-agency team update the Joint Child Malnutrition Estimates (JME) every other year.
- · The JME includes estimates of prevalence and numbers affected for stunting, overweight, wasting and severe wasting among children under five years of age at country, regional and global levels. Global, regional and country annual trends.
- Data Source: United Nations Children's Fund (UNICEF), World Health Organization (WHO), World Bank (WB)
- · Data Collection: Data is collected from various national organisation's health survey departments. The list of organisations are DHS, DHS-style or MICS-style survey, LSMS, MICS, NNS, SMART

Analysis of the Joint Child Malnutrition Estimation Dataset Worldwide. Stunting Analysis From top left to bottom right: Choropleth Map describing the stunting percentage in each country, national income vs stunting percentage in the UN region, highly and least affected nations by stunting under the age of 5. World Bank Income Groups **UN Regions** Africa Asia Europe Latin America an.. Northern America Oceania © 2023 Mapbox © OpenStreetMap High Income Upper Middle Income Lower Middle Income Countries and areas Countries and areas Latvia Kenya Australi Burkina Faso Estonia Bolivia (Plurinational Stat. German Somalia Netherlands (Kingdom of Tajikistar Sierra Leone Belgiun Mal Republic of Korea Equatorial Guinea Polano Saint Lucia Honduras Central African Republi Czechia United States Portuga

Analysis of the Joint Child Malnutrition Estimation Dataset Worldwide. Wasting Analysis From top left to bottom right: Choropleth Map describing the stunting percentage in each country, national income vs stunting percentage in the UN region, highly and least affected nations by stunting under the age of 5. World Bank Income Groups **UN Regions** Africa Asia Europe Latin America an.. Northern America Oceania © 2023 Mapbox © OpenStreetMap High Income Upper Middle Income Lower Middle Income Countries and areas Countries and areas Latvia Kenya Australi Burkina Faso Estonia Bolivia (Plurinational Stat. German Somalia Netherlands (Kingdom of Tajikistar Sierra Leone Belgiun Mal Republic of Korea Equatorial Guinea Polano Saint Lucia Honduras Central African Republi Czechia United States Chad Portuga





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Stunting: the data suggests that stunting, wasting, and the prevalence of low birth weight among newborns are positively correlated, even to varying degrees. Higher stunting rates are associated with higher rates of low birth weight, wasting, and severe wasting. Similarly, areas with a higher prevalence of low birth weight among newborns are more likely to have higher rates of wasting and severe wasting. Additionally, wasting and severe wasting are strongly correlated, indicating that they occur together.

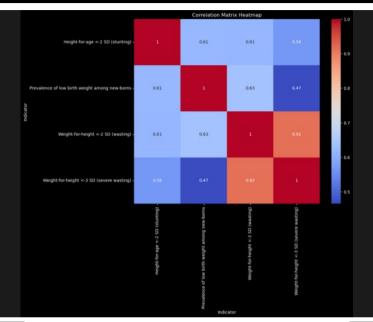
The most affected countries are Kenya., Bolivia, Somalia, Tajikistan and Mali. Some country's negligible stunting observations among those are Lativia, Australia, Germany, Netherlands. Stunting estimation values aren't the same across the globe.

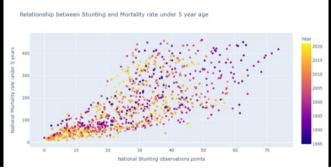
Wasting: South Sudan, Papua, India, Cambodia, and Maldives recorded the highest observation values. Australia, Belgium, Estonia, Latvia, and Germany have very negligible cases of wasting. Wasting estimation values aren't the same across the globe.

Overweight: Ukraine, Libya, and Bosnia have the maximum records for the highest overweight. Observation values Srilanka, Bangladesh, Niger, and Saudi Arabia have the least number of overweight observation values. Overweight estimation values aren't the same across the globe.

<u>Correlation:</u> From the initial analysis of the UNICEF dataset observed malnutrition(Stunting, Wasting) among children under the age of 5 are directly influenced by the income of the countries.

Also, global death among children less than age 5 years is positively correlated with the country's malnutrition values. Higher the malnutrition observation value higher the mortality rate among children.





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					Limitations:					
		l. Unicef dataset is record	led randomly from the d	ifferent data source age		nissing.				
		2. All countries have different periods of observation or measuring of the samples. Some countries have a yearly collection of samples, and some have five or ten years once. The record is inconsistent, making finding the trend or pattern complex.								
		3. Also, there could be possibilities of data bias. Countries hide the actual sample estimation to protect country reputations.								
	,	4, Missing records: Most of the country won't segregate the malnutrition(stunting, wasting & overweight) observations based on age, gender, income and other factors.								

Analysis of the Joint Child Malnutrition Estimation Dataset Worldwide. Contact Thank you **Muhammad Abdulkayyum Muttaki** muttaki.mak@gmail.com