



# Trends and Inequality of Childhood Undernutrition in Bangladesh: A Household Level Analysis (2004-2018)



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# Introduction

- ❑ Childhood undernutrition is an emerging public health concern globally
- ❑ Undernutrition (e.g., *wasting*, *stunting*, and *underweight*) is a form of malnutrition, which is responsible for approximately **45%** of all global childhood deaths, which mostly occurs in LMI countries (WHO, 2018)
- ❑ Globally, **52 million** under-five children are **wasted**, and **155 million** are **stunted**, while approximately **15%** of under-five children are **underweight** (Acomby, 2017; WHO , 2018)
- ❑ Childhood undernutrition is a **prevalent public health concern** in Bangladesh.

# Objectives of the study

The overall objective of this study was to observe the **trends** and **patterns** of childhood undernutrition, **inequality**, and sort out **the factors** that are potentially contributing to such inequalities in Bangladesh

# Methodology

- ❑ Data were extracted from Bangladesh Demographic and Health Survey (BDHS) which is a nationally representative cross-sectional survey.
- ❑ We have utilized the latest five (5) rounds of the BDHS data (2004, 2007, 2011, 2014 and 2017-18)
- ❑ Childhood undernutrition was assessed by anthropometric measurements developed by the World Health Organization, namely, height-for-age  $z$ -score (HAZ), weight-for-age  $z$ -score (WAZ), and weight-for-height  $z$ -score (WHZ).
- ❑  $Z$ -scores (HAZ, WAZ, and WHZ) were calculated following the WHO child growth standard guideline (WHO, 2006)
- ❑ A child was defined as stunted if HAZ was below minus two ( $-2$ ) standard deviation (SD) from the mean of the reference population. Similarly, WAZ of below  $-2$  SD and WHZs of below  $-2$  SD were considered as underweight and wasting (WHO, 2006)

## Methodology (cont.)

- ❑ Inequality analysis of stunting, wasting, and underweight was executed at three stages: plotting the concentration curves, examining the concentration indexes (CIs), and decomposing of the CIs to explore the factors that contributed to the inequity of undernutrition
- ❑ We constructed the concentration curves, which plot the cumulative share of childhood undernutrition against the cumulative percentage of the population ranked from the poorest to the richest
- ❑ If the undernutrition is more concentrated among poor people, the concentration curve will lie above the equity line and vice-versa
- ❑ CIs are calculated to measure the gap between the concentration curves and the equity line.
- ❑ The value of the CI lies between  $-1$  and  $+1$  (i.e.,  $-1 \leq CI \leq +1$ ), where  $-1$  refers the undernutrition is fully concentrated among the poorest quintile, and  $+1$  refers fully concentrated among the richest quintile.

# Methodology (cont.)

❑ The estimated CIs were decomposed to observe the contribution of various factors in childhood undernutrition.

❑ The regression model for the health outcome ( $y$ ) to the set of  $k$  determinants ( $x_k$ ) can be expressed

$y = \alpha + \sum_k \beta_k x_k + \varepsilon$  where,  $\beta_k$  is the coefficient of  $x_k$  and  $\varepsilon$  is the error term.

❑ The concentration index of  $y$  denoted ( $C$ ) can be written as  $C = \sum_k (\beta_k \bar{x}_k / \mu) C_k + GC_\varepsilon / \mu$ , Here,  $\mu$  is the mean of health outcome variable ( $y$ );  $\bar{x}_k$  is the mean of  $x_k$  ( $k^{\text{th}}$  determinant variable); the concentration index of  $x_k$  is denoted by  $C_k$  and  $GC_\varepsilon$  is the generalized concentration for the error term ( $\varepsilon$ ).  $\frac{\beta_k \bar{x}_k}{\mu}$  denotes the elasticity of the undernutrition with respect to the explanatory variables.

❑ Percentage changes of prevalence of stunted, wasted, and underweight from 2004 to 2017-18 were calculated as

$$\text{Percentage change} = \frac{(\text{Prevalence at the base year} - \text{Prevalence at the current year})}{\text{Prevalence at the base year}} \times 100$$

❑ The annual percentage change of the prevalence of undernutrition was calculated based on the following formula:

$$\left( \left( \frac{\text{Prevalence at the current year}}{\text{Prevalence at the base year}} \right)^{\frac{1}{\text{No. of years}}} - 1 \right) * 100$$



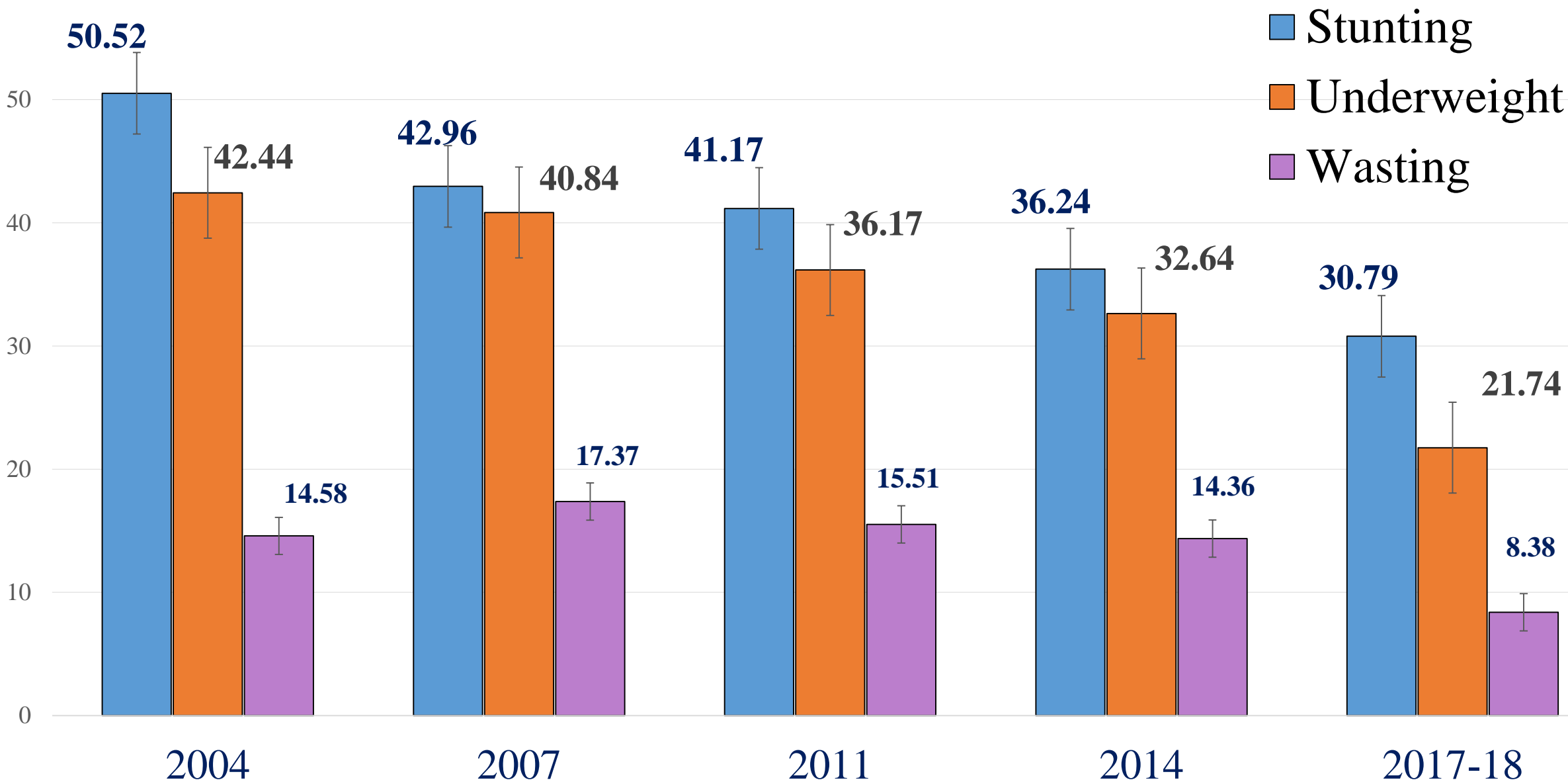
# Results

## Background Characteristics, N (%)

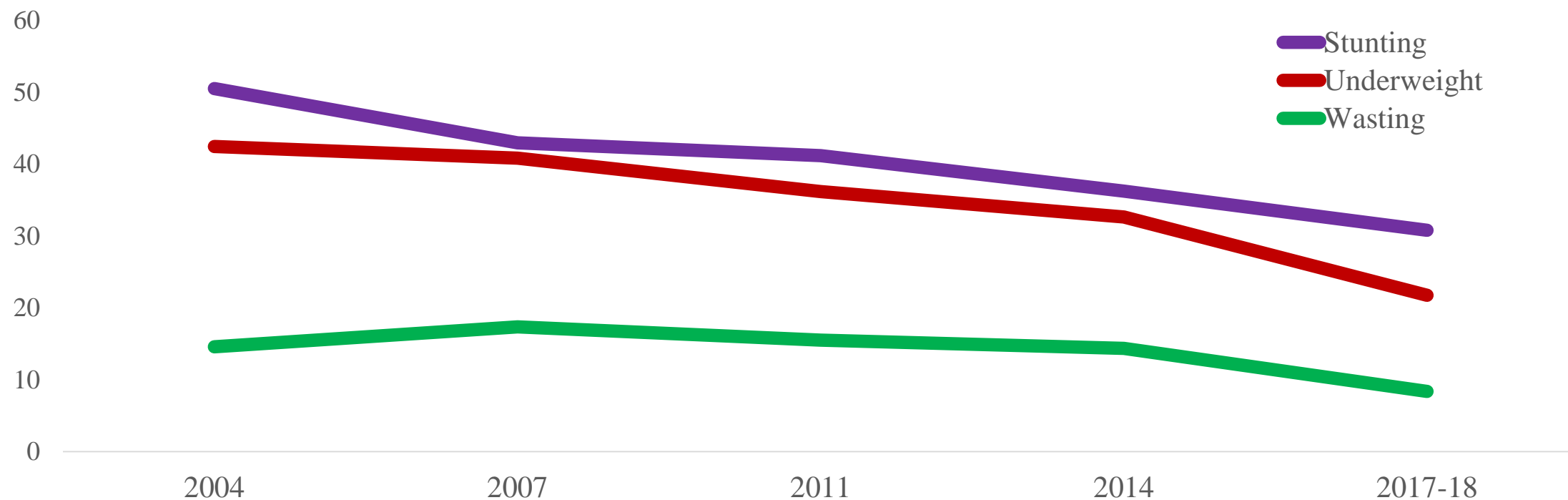
Characteristics	2004	2007	2011	2014	2017-18
<b>Children's age in month</b>					
<6 months	707 (10.22)	495 (8.25)	827 (9.49)	665 (8.28)	917 (10.63)
6-12 months	724 (10.47)	692 (11.55)	1033 (11.85)	1027 (12.78)	978 (11.32)
13-23 months	1220 (17.64)	1123 (18.72)	1441 (16.53)	1522 (18.94)	1563 (18.11)
24-35 months	1401 (20.26)	1229 (20.48)	1598 (18.34)	1640 (20.41)	1745 (20.21)
36-47 months	1459 (21.1)	1218 (20.32)	1958 (22.46)	1600 (19.91)	1704 (19.73)
48-59 months	1403 (20.29)	1241 (20.68)	1859 (21.33)	1582 (19.68)	<b>1727 (20)</b>
<b>Sex of Child</b>					
Male	3507 (50.74)	2982 (49.73)	4448 (51.03)	4185 (52.1)	4511 (52.25)
Female	3405 (49.26)	3015 (50.27)	4268 (48.97)	3849 (47.9)	4123 (47.75)
<b>Place of residence</b>					
Urban	1373 (19.86)	1236 (20.61)	1938 (22.23)	2039 (25.37)	2361 (27.34)
Rural	5540 (80.14)	4761 (79.39)	6778 (77.77)	5996 (74.63)	6273 (72.66)
<b>Division</b>					
Dhaka	2144 (31.02)	1888 (31.48)	2699 (30.97)	2814 (35.03)	2230 (25.83)
Chattogram	1519 (21.97)	1318 (21.97)	2011 (23.07)	1735 (21.6)	1797 (20.81)
Rajshahi	1531 (22.15)	1295 (21.59)	1142 (13.1)	824 (10.26)	718 (8.31)
Rangpur	-	-	674 (7.74)	808 (10.05)	905 (10.48)
Khulna	723 (10.46)	574 (9.57)	785 (9)	605 (7.53)	791 (9.16)
Mymensingh	-	-	-	-	709 (8.21)
Sylhet	589 (8.52)	544 (9.07)	923 (10.59)	794 (9.88)	1004 (11.63)
Barisal	407 (5.88)	379 (6.32)	482 (5.53)	455 (5.66)	481 (5.57)
<b>Total</b>	<b>6,912</b>	<b>5,997</b>	<b>8,716</b>	<b>8,034</b>	<b>8,634</b>



# Prevalence of childhood undernutrition across years (%)



## Percentage changes of childhood undernutrition (2004 to 2017-18)



Type of undernutrition	Percentage change	Annual Percentage Change	P-value (Base year vs. Current year)
Stunting	39.05	-3.26	0.00
Underweight	48.77	-4.38	0.00
Wasting	42.52	-3.64	0.00

# Annual percentage (%) changes of Stunting from 2004 to 2018

Characteristics	2004	2007	2011	2014	2017-18	Percentage change	Annual % Change
<b>Children's age in month</b>							
<6 months	22.57	18.44	17.69	14.14	20.06	11.12	-0.79
6-12 months	31.47	24.13	25.78	20.34	19.78	37.15	-3.06
13-23 months	55.3	41.61	49.96	39.8	34.94	36.82	-3.03
24-35 months	59.53	53.3	47.42	41.31	38.77	34.87	-2.83
36-47 months	58.61	54.16	47.14	45.28	33.5	42.84	-3.68
48-59 months	53.6	45.27	41.42	38.73	28.74	46.38	-4.09
<b>Sex of Child</b>							
Male	51.37	43.59	40.41	36.88	30.8	40.04	-3.37
Female	49.65	42.35	41.97	35.55	30.77	38.03	-3.15
<b>Household size</b>							
Small (<4 members)	45.24	43.67	42.68	34.47	29.59	34.59	-2.8
Medium (4-6 members)	51.38	44.19	41.26	36.57	31.45	38.79	-3.24
Large (>6 members)	50.64	40.9	40.58	36.27	30.06	40.64	-3.43

# Annual percentage (%) changes of Stunting from 2004 to 2018

Characteristics	2004	2007	2011	2014	2017-18	Percentage change	Annual % Change
<b>Place of residence</b>							
Urban	44.5	36.35	36.38	30.78	25.42	42.88	<b>-3.68</b>
Rural	51.99	44.73	42.54	38.08	32.72	37.06	-3.05
<b>Division</b>							
Dhaka	52.57	43.77	43.38	34.14	25.57	51.36	<b>-4.71</b>
Sylhet	53.46	43.89	42.65	36.55	31.04	41.94	-3.58
Barisal	55.78	47.27	44.38	40	32.85	41.11	-3.49
Rangpur			49.76	49.85	30.25	39.21	-3.28
Chattogram	52.81	45.16	41.06	37.96	32.63	38.21	-3.17
Rajshahi	47.92	41.54	33.69	30.86	35.15	26.65	-2.05
Khulna	40.34	34.87	33.57	27.89	25.67	36.37	-2.98
<b>Wealth index</b>							
Poorest	62.06	53.76	53.51	49.42	40.32	35.03	-2.85
Poorer	55.24	50.29	45.93	42.31	37.37	32.35	-2.58
Middle	50.12	41.88	40.15	36.22	30.25	39.64	-3.33
Richer	47.86	38.57	36.08	31.27	26.77	44.07	<b>-3.82</b>
Richest	30.45	26.36	25.7	19.48	17.2	43.51	<b>-3.75</b>

## Annual percentage (%) changes of Wasting from 2004 to 2018

Characteristics	2004	2007	2011	2014	2017-18	Percentage change	Annual % Change
<b>Children's age in month</b>							
<6 months	15.1	17.52	15.54	19.94	9.18	39.21	-3.28
6-12 months	17.84	18.34	14.59	19.47	7.21	59.59	<b>-5.89</b>
13-23 months	19.26	22.87	15.77	13.81	8.47	56.02	<b>-5.36</b>
24-35 months	13.7	16.21	14.28	12.79	7.89	42.41	-3.63
36-47 months	11.22	14.55	15.91	11.62	8.81	21.48	-1.61
48-59 months	12.66	15.28	16.47	13.38	8.66	31.6	-2.51
<b>Sex of Child</b>							
Male	15.71	18.15	15.89	15.08	9.19	41.5	-3.53
Female	13.42	16.61	15.11	13.58	7.51	44.04	<b>-3.81</b>
<b>Household size</b>							
Small (<4 members)	14.04	16.56	16.22	12.71	9.81	30.13	-2.37
Medium (4-6 members)	15.72	18.06	15.8	14.84	8.21	47.77	<b>-4.26</b>
Large (>6 members)	13.19	16.53	14.8	14.08	8.14	38.29	-3.18

## Annual percentage (%) changes of Wasting from 2004 to 2018 (cont.)

Characteristics	2004	2007	2011	2014	2017-18	Percentage change	Annual % Change
<b>Place of residence</b>							
Urban	13.59	14.36	13.82	12.21	8.92	34.36	-2.78
Rural	14.82	18.17	15.98	15.08	8.19	44.74	<b>-3.9</b>
<b>Division</b>							
Dhaka	12.85	15.39	15.49	12.01	8.9	30.74	-2.43
Chattogram	15.74	17.57	15.74	15.58	8	49.17	-4.43
Rajshahi	16.24	18.91	16.36	17.55	8.84	45.57	-3.99
Rangpur			18.43	11.93	7.11	61.42	<b>-6.18</b>
Khulna	16.25	18.82	14.71	13.64	7.7	52.62	<b>-4.88</b>
Sylhet	15.11	18.14	13.09	17.61	7.61	49.64	-4.49
Barisal	9.27	18.07	14.74	17.74	8.92	3.78	-0.26
<b>Wealth index</b>							
Poorest	17.77	20.56	17.84	17.11	9.91	44.23	-3.84
Poorer	15.22	17.83	15.74	16.65	8	47.44	<b>-4.22</b>
Middle	15.41	17.05	17.57	12.63	7.63	50.49	<b>-4.6</b>
Richer	11.74	17.55	13.39	13.22	8.8	25.04	-1.91
Richest	11.05	12.98	12.11	11.78	7.34	33.57	-2.7

# Annual percentage (%) changes of Underweight from 2004 to 2018

Characteristics	2004	2007	2011	2014	2017-18	Percentage change	Annual % Change
<b>Children's age in month</b>							
<6 months	27.4	28.5	15.92	19.14	15.51	43.39	<b>-3.74</b>
6-12 months	33.27	28.28	25.65	22.05	14.07	57.71	<b>-5.6</b>
13-23 months	45.85	39.32	35.77	32.03	18.82	58.95	<b>-5.79</b>
24-35 months	45.84	44.47	39.43	36.63	24.24	47.12	-4.18
36-47 months	44.7	46.82	42.94	37.12	26.09	41.63	-3.54
48-59 months	46.33	46.01	41.31	37.68	25.85	44.2	-3.83
<b>Sex of Child</b>							
Male	42.55	39.59	34.17	32.14	21.65	49.12	<b>-4.43</b>
Female	42.33	42.08	38.25	33.18	21.83	48.43	-4.34
<b>Household size</b>							
Small (<4 members)	34.97	40.64	37.53	29.62	22.26	36.35	-2.98
Medium (4-6 members)	44.46	41.6	37.32	33.24	22.18	50.11	<b>-4.55</b>
Large (>6 members)	41.52	39.74	33.89	32.64	20.73	50.07	<b>-4.55</b>

## Annual percentage (%) changes of Underweight from 2004 to 2018 (cont.)

Characteristics	2004	2007	2011	2014	2017-18	Percentage change	Annual % Change
<b>Place of residence</b>							
Urban	37.32	33.32	27.84	26.25	19.03	49.01	-4.41
Rural	43.69	42.85	38.54	34.79	<b>22.71</b>	48.02	-4.29
<b>Division</b>							
Dhaka	41.98	39.82	36.3	28.42	18.43	56.1	-5.37
Chattogram	45.44	41.25	37.24	35.79	21.04	53.7	-5.03
Rajshahi	42.7	43.1	34.11	32.28	<b>25.64</b>	39.95	<b>-3.36</b>
Rangpur			45.25	39.99	20.08	55.62	-5.3
Khulna	35.02	34.27	28.79	25.56	18.95	45.89	-4.03
Sylhet	46.65	41.59	34.4	37.13	22.98	50.74	-4.63
Barisal	40.49	45.67	39.28	36.51	22.45	44.55	-3.87
<b>Wealth index</b>							
Poorest	55.66	50.31	50.3	45.45	<b>28.76</b>	48.33	-4.33
Poorer	46.82	45.85	41.77	38.64	<b>25.56</b>	45.41	<b>-3.97</b>
Middle	38.46	41.19	35.45	31.97	19.99	48.02	-4.29
Richer	38.62	37.73	27.75	27.34	20.64	46.56	-4.11
Richest	25.74	25.8	20.61	17.44	12.44	51.67	-4.75



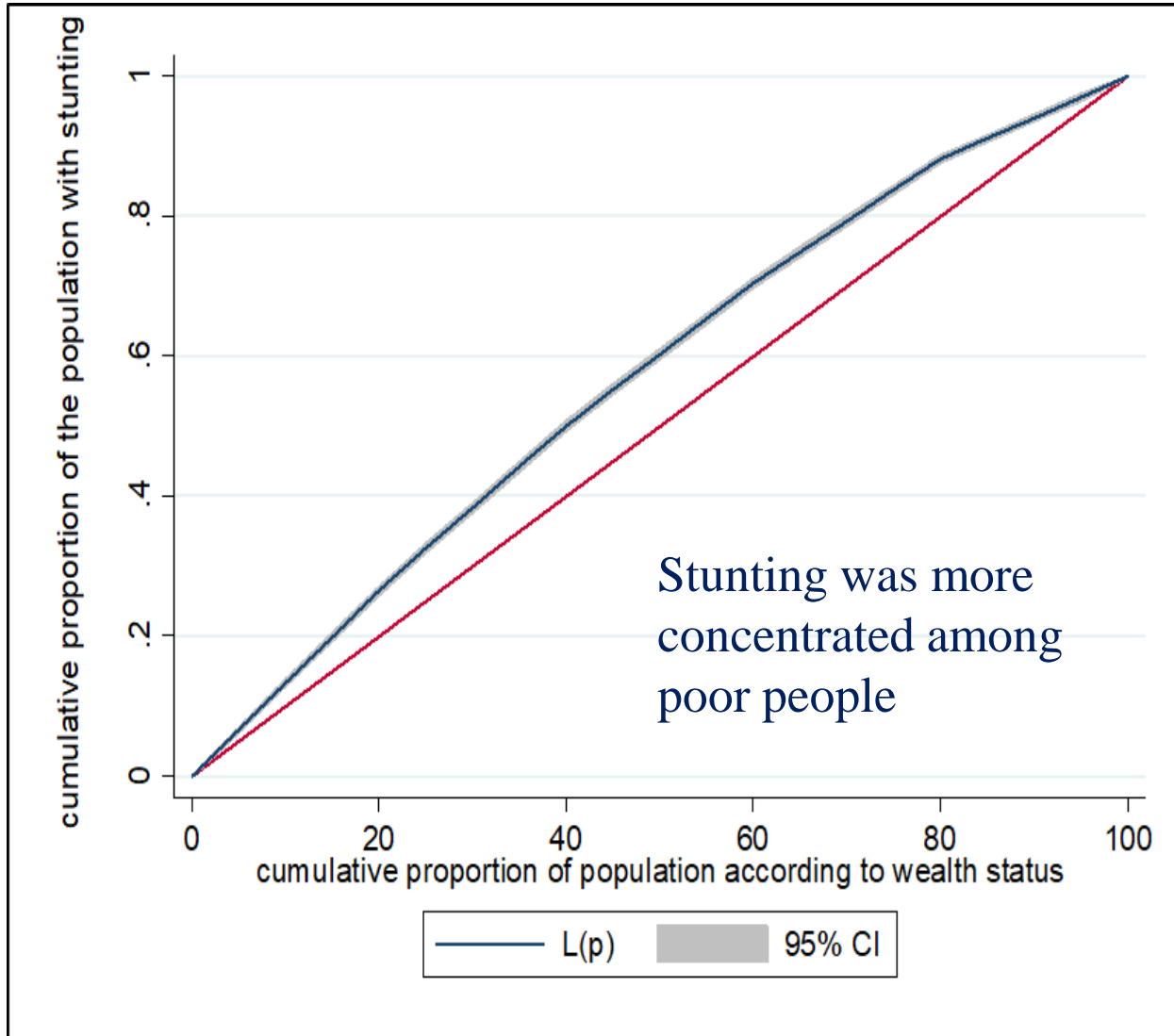
## Changing trends of concentration index (CI) of childhood undernutrition from 2004 to 2018

Types of undernutrition	2004	2007	2011	2014	2017-18
Stunting	<b>-0.219</b>	-0.213	-0.216	-0.247	<b>-0.211</b>
Wasting	-0.109	-0.085	-0.083	-0.092	-0.046
Underweight	<b>-0.224</b>	-0.185	-0.256	-0.247	<b>-0.176</b>

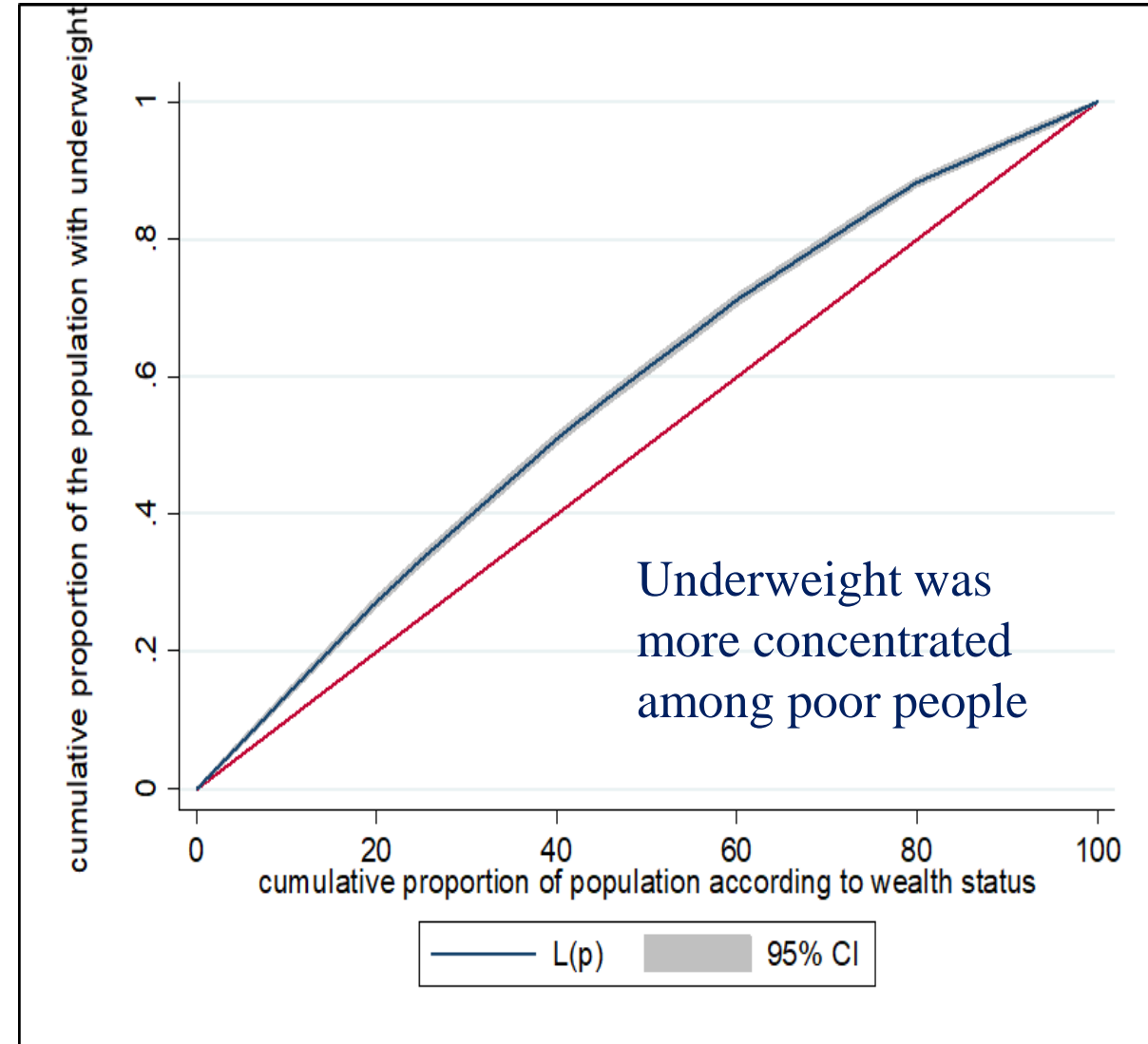
*The value of the CI lies between  $-1$  and  $+1$  (ie,  $-1 \leq CI \leq +1$ ), where  $-1$  refers the undernutrition is fully concentrated among the poorest quintile, and  $+1$  refers fully concentrated among the richest quintile*

# Concentration curves showing inequities for childhood

## (A) Stunting and (B) Underweight, BDHS 2017-18



**(A) Stunting**



**(B) Underweight**

# Decomposition analysis of sociodemographic characteristics for stunting

- ❑ The tables represent the results of elasticity analysis, the concentration index of the regressors (CI), absolute, and the percentage contribution of regressors to the inequality of childhood wasting.
- ❑ We observed that maternal education, **mothers BMI**, household size, **mass-media exposure**, and wealth status of households were important contributors of the total inequality of wasting in 2017-18
- ❑ Among the variables, the greatest contributions towards inequality in wasting were **wealth status of households (49%)**, **maternal education (20%)**, **exposure of mass media (8%)** and **BMI status of mothers (7%)**

Characteristics	Elasticity	Concentration Index (CI)	Absolute contribution	Percentage contribution
Children's age in month				
<6 months (ref.)				
6-12 months	0.000	-0.006	0.000	0.003
13-23 months	0.029	0.007	0.001	-0.455
24-35 months	0.038	0.004	0.001	-0.333
36-47 months	0.029	0.002	0.000	-0.128
48-59 months	0.018	-0.005	0.000	0.169
Total			0.002	-0.744
Sex of Child				
Male	0.001	-0.004	0.000	0.013
Female (ref.)				
Birth order				
First (ref.)				
Second	-0.002	0.046	0.000	0.232
Third	0.000	-0.045	0.000	0.026
Fourth or more	0.005	-0.121	-0.002	1.298
Total			-0.002	1.556
Childhood illness				
Yes (ref.)				
No	0.000	0.037	0.000	-0.021
Mothers' educational status				
No education	0.012	-0.102	-0.005	2.617
Primary education	0.040	-0.303	-0.049	25.755
Secondary education	0.042	0.092	0.016	-8.310
Higher education (ref.)			-	-
Total			-0.038	20.062
Mothers age at first birth				
Less than 18 years	-0.004	-0.246	0.004	-2.070
18-24 years (ref.)				
25 years or above	-0.002	0.089	-0.001	0.342
Total			0.003	-1.728
Mothers working status				
Yes	0.005	-0.260	-0.006	2.988
No (ref.)				
Mothers BMI (Body Mass Index)				
Underweight	0.009	-0.146	-0.005	2.666
Normal Weight (ref.)				
Overweight	-0.008	0.200	-0.007	3.493
Obese	-0.003	0.110	-0.002	0.807
Total			-0.014	6.966
Household size				
Small (<4 members) (ref.)				
Medium (4-6 members)	0.018	-0.086	-0.006	3.259
Large (>6 members)	0.011	0.076	0.003	-1.721
Total			-0.003	1.538
Source of drinking water				
Improved water sources (ref.)				
Non-improved water sources	0.001	-0.023	0.000	0.054
Toilet facility				
Hygienic toilet facility (ref.)				
Unhygienic toilet facility	0.001	-0.510	-0.001	0.555
Place of residence				
Urban (ref.)				
Rural	-0.006	-0.458	0.012	-6.144
Division				
Dhaka (ref.)				
Chattogram	0.008	0.066	0.002	-1.092
Rajshahi	0.005	-0.088	-0.002	0.864
Rangpur	-0.001	-0.095	0.000	-0.210
Khulna	-0.002	0.037	0.000	0.138
Mymensingh	0.013	-0.014	-0.001	0.400
Sylhet	0.001	-0.014	0.000	0.020
Barisal	0.002	-0.075	-0.001	0.326
Total			-0.002	0.446
Mass media exposure				
Yes	-0.006	0.635	-0.015	7.690
No (ref.)				
Wealth index				
Poorest	0.028	-0.694	-0.077	40.526
Poorer	0.027	-0.297	-0.032	16.725
Middle	0.015	0.016	0.001	-0.485
Richer	0.012	0.323	0.015	-8.145
Richest (ref.)			-	-
Total			-0.093	48.621

# Decomposition analysis of sociodemographic characteristics for underweight

- ❑ We observed birth order of the child, childhood illness, maternal education, mothers' BMI, toilet facilities, and wealth status were major contributor of the inequality of childhood underweight in 2017-18 in Bangladesh.
- ❑ Household economic status as measured by **wealth index** was responsible for **46%** of the inequality in 2017-18
- ❑ Maternal **education** made a significant contribution to underweight inequality explaining **21%** of the total inequality in 2017-18
- ❑ Mothers' **BMI** was responsible **12%** of the total inequality of childhood underweight

Characteristics	Elasticity	Concentration Index (CI)	Absolute contribution	% of contribution
Children's age in month				
<6 months (ref.)				
6-12 months	-0.003	-0.006	0.000	-0.059
13-23 months	0.003	0.004	0.000	-0.034
24-35 months	0.016	0.002	0.000	-0.085
36-47 months	0.018	0.004	0.000	-0.203
48-59 months	0.019	0.000	0.000	0.001
Total			0.000	-0.380
Birth order				
First (ref.)				
Second	0.001	0.051	0.000	-0.223
Third	0.001	-0.043	0.000	0.131
Fourth or more	0.006	-0.121	-0.003	2.266
Total			-0.003	2.174
Childhood illness				
Yes (ref.)				
No	-0.029	0.040	-0.005	3.692
Mothers' educational status				
No education	0.011	-0.099	-0.004	3.473
Primary education	0.027	-0.299	-0.032	24.783
Secondary education	0.028	0.082	0.009	-7.225
Higher education (ref.)			-	-
Total			-0.027	21.031
Mothers age at first birth				
Less than 18 years	0.000	-0.245	0.000	-0.121
18-24 years (ref.)				
25 years or above	0.001	0.089	0.000	-0.242
Total			0.000	-0.363
Mothers working status				
Yes	-0.001	-0.256	0.001	-0.798
No (ref.)				
Mothers BMI (Body Mass Index)				
Underweight	0.012	-0.146	-0.007	5.639
Normal Weight (ref.)				
Overweight	-0.008	0.198	-0.006	4.948
Obese	-0.004	0.110	-0.002	1.375
Total			-0.015	11.962
Toilet facility				
Hygienic toilet facility (ref.)				
Unhygienic toilet facility	0.006	-0.516	-0.013	9.759
Place of residence				
Urban (ref.)				
Rural	-0.005	-0.457	0.008	-6.616
Division				
Dhaka (ref.)				
Chattogram	0.004	0.070	0.001	-0.797
Rajshahi	0.004	-0.086	-0.001	1.008
Rangpur	-0.002	-0.092	0.001	-0.459
Khulna	-0.001	0.039	0.000	0.101
Mymensingh	0.011	-0.016	-0.001	0.548
Sylhet	0.002	-0.019	0.000	0.106
Barisal	0.002	-0.078	0.000	0.365
Total			0.000	0.872
Mass media exposure				
Yes	0.007	0.637	0.018	-14.092
No (ref.)				
Wealth index				
Poorest	0.019	-0.695	-0.053	41.094
Poorer	0.017	-0.296	-0.020	15.861
Middle	0.009	0.015	0.001	-0.412
Richer	0.010	0.325	0.013	-10.284
Richest (ref.)			-	-
Total			-0.059	46.259

## Summary and Conclusion

- ❑ Our study observed that from 2004 to 2017-18, the prevalence of childhood **stunting**, **wasting**, and **underweight** has declined by **39%**, **43%**, and **49%**, respectively
- ❑ The overall change in stunting over the decade was highest among the richest, urban residents, among male children, children from larger households and educated mothers and those living in Dhaka division
- ❑ The overall change in wasting was highest among female, children from uneducated mother, rural resident, children who belonged to the medium households (4-6 member), belonged to Rangpur and Khulna division, among the poor and middle quintiles households
- ❑ The overall change in childhood underweight was highest among male, children from educated mothers, from larger households, urban residents, who belonged to the Dhaka and Sylhet division and among richest households.
- ❑ We have shown the reduction of undernutrition in terms of **stunting** and **underweight** was **not guaranteed** to improve **equity** in Bangladesh.
- ❑ Wealth status was accounted for almost **half of the total inequality** in both stunting and underweight prevalence of children, whereas **maternal education** was ranked as the **second contributor**.

## Summary and Conclusion (cont.)

- ❑ The main conclusion could be summarized by observing that, while the overall **childhood undernutrition** situation is **improving**, **inequalities** in terms of socioeconomic aspects has appeared to have **widened over time**
- ❑ Improving **economic activity** and **maternal education** will improve the nutritional status of children and as a consequence reduce inequality.
- ❑ Nutrition-specific interventions, such as micronutrient supplementation and improved food and nutrient intake during pregnancy for **low-income households** might also be prioritized.
- ❑ The latest **Bangladesh National Nutrition Policy** emphasizes improving health equity for the poor and geographically marginalized populations **through identifying its various underlying causes**. Thus, this study can contribute to identifying the actions should be taken to prevent inequalities in childhood undernutrition.

# Thank You

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