



Socio-cultural and economic factors impact to children malnutrition in ksatria airlangga floating hospital service (RSTKA) in remote area: Bawean island

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INTRODUCTION

- Child undernutrition is a major public health problem in many low and middle income countries (LMICs).
- Malnutrition in children severely affects their physical growth and academic achievements. It results from a complex interaction of contextual factors related to community, household, environmental, socioeconomic and cultural influences which have significant health consequences.
- There is lack of data about malnutrition in Indonesia especially rural area (Bawean island).

OBJECTIVE

To assess the impact of various socio-cultural and economic factors on nutritional status of children in a rural area Bawean Island



METHODS



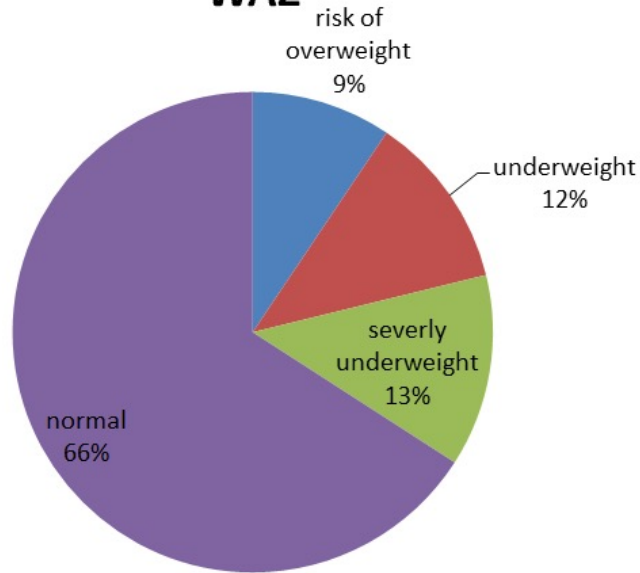
- This study used descriptive analytical design with the cross-sectional approach.
- The total 75 mothers with their children aged 2 months–8 years old from Bawean Island, Gresik, East Jawa, Indonesia were total sampling in RSTKA service.
- This research identifies cultural, lifestyle values, and economic status using questionnaires. The questionnaire has been validated and is feasible to be carried out by the sample.
- Demographic and household characteristics were documented and anthropometric measurements were collected to calculate weight-for-age (WAZ), height-for-age (HAZ) and weight-for-height (WHZ).
- WHO Anthro and SPSS v 20 (IBM Corp, Chicago, IL, US) were used for the analysis of data.



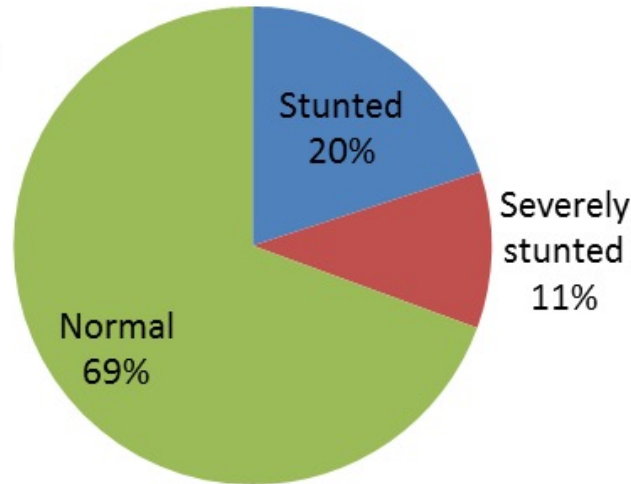
RESULTS



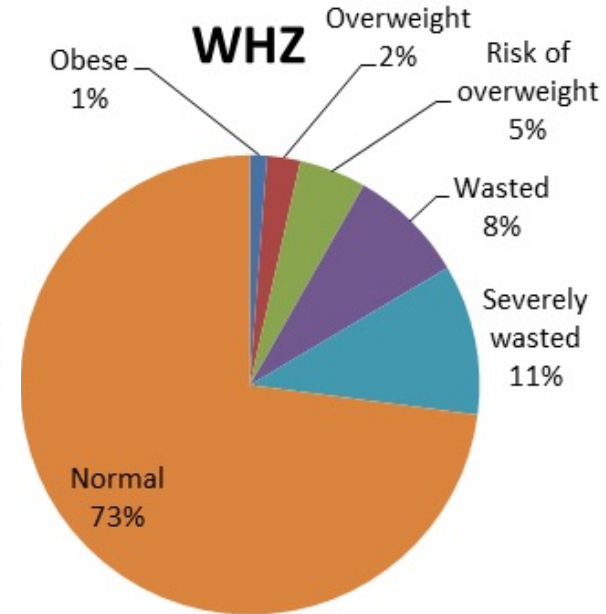
WAZ



HAZ



WHZ



	WHZ			HAZ			WAZ		
	Normal n (%)	Malnutrition n (%)	P value	No stunting n (%)	Stunting n (%)	P value	Normal n (%)	Malnutrition n (%)	P value
Gender									
Male	27 (67.5%)	13 (32.5%)	0.072	25 (62.5%)	15 (37.5%)	0.277	26 (65%)	14 (35%)	0.552
Female	30 (85.7%)	5 (14.3%)		26 (74.3%)	9 (25.7%)		25 (71.4%)	10 (28.6%)	
Age									
< 12 m.o	17 (63%)	10 (37%)	0.237	21 (77.8%)	6 (22.2%)	0.174	20 (74.1%)	7 (25.9%)	0.806
>12-36 mo	29 (82.9%)	6 (17.1%)		20 (57.1%)	15 (42.9%)		22 (62.9%)	13 (37.1%)	
>36-60 mo	8 (88.9%)	1 (11.1%)		6 (66.7%)	3 (33.3%)		6 (66.7%)	3 (33.3%)	
>60 mo	3 (75%)	1 (25%)		4 (100%)	0		3 (75%)	1 (25%)	
Mother Education									
ES	5 (55.6%)	4 (44.4%)	0.579	6 (66.7%)	3 (33.3%)	0.513	4 (44.4%)	5 (55.6%)	0.587
JHS	12 (75%)	4 (25%)		8 (50%)	8 (50%)		12 (75%)	4 (25%)	
SHS	25 (78.1%)	7 (21.9%)		24 (75%)	8 (25%)		22 (68.8%)	10 (31.3%)	
Diploma	3 (75%)	1 (25%)		3 (75%)	1 (25%)		3 (75%)	1 (25%)	
Degree	12 (85.7%)	2 (14.3%)		10 (71.4%)	4 (28.6%)		10 (71.4%)	4 (28.6%)	
Socio-cultural									
Yes	42 (72.4%)	16 (27.6%)	0.194	40 (69%)	18 (31%)	0.741	36 (62.1%)	22 (37.9%)	0.042
No	15 (88.2%)	2 (11.8%)		11 (64.7%)	6 (35.3%)		15 (88.2%)	2 (11.8%)	
Economic status									
High	28 (73.7%)	10 (26.3%)	0.178	31 (81.6%)	7 (18.4%)	0.012	23 (60.5%)	15 (39.5%)	0.156
middle	11 (64.7%)	6 (35.3%)		7 (41.2%)	10 (58.8%)		11 (64.7%)	6 (35.3%)	
Low	18 (90%)	2 (10%)		13 (65%)	7 (35%)		17 (85%)	3 (15%)	

