

NIN-UNICEF

**Quick nutrition assessment report
Report of Nutrition in
Quang Nam, Quang Ngai, Kon Tum, Dak Lak
of Vietnam
during (05-14 Nov 2009).**

(Nutritional Surveillance and Applied Nutrition Department, NIN)

Hanoi Nov 2009

I. Summary of the report

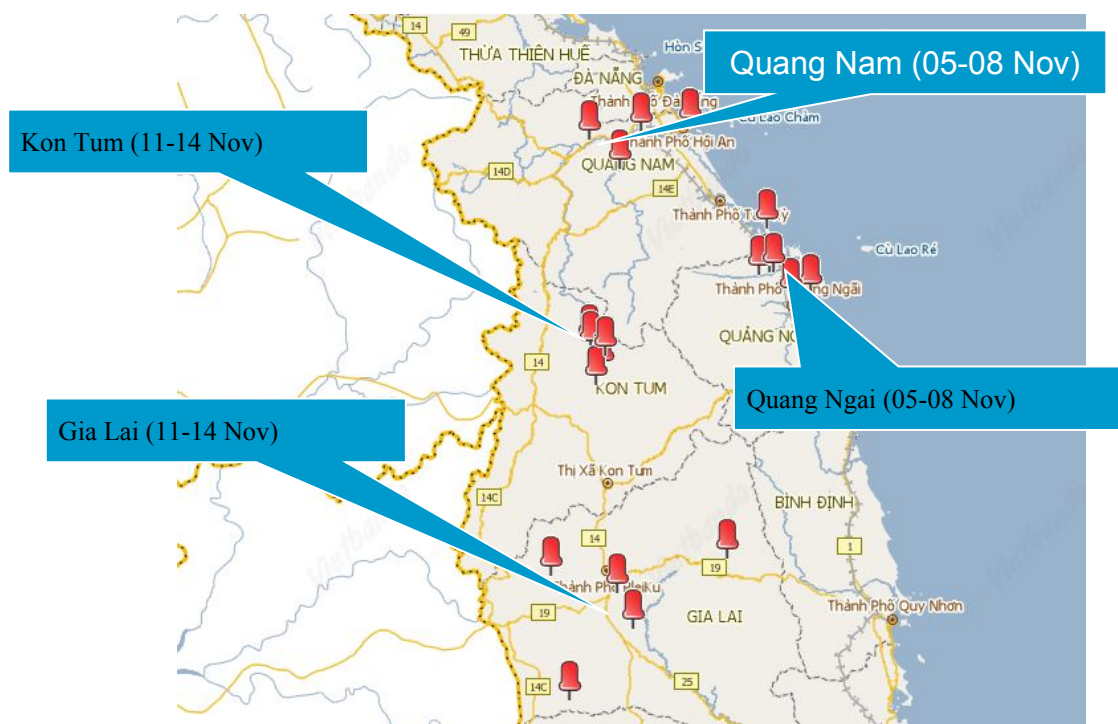
- Area surveyed: 4 provinces in centre of Viet Nam
- Date of survey: from 05 November 2009 to 14 November 2009
- Methodology employed: Quick Nutrition Assessment (More detail in final report) and ENA software for data analysis.

- Main anthropometric results

GAM: 8.2 % (4.6 - 14.1 95% C.I.)

SAM : 1.1 % (0.5 - 2.7 95% C.I.)

Province	Cluster	District	Commune	Children	GAM	SAM
503.Quảng Nam	1	503.Hội An	Cẩm Thanh	67	1.5%	0.0%
	2	506.Đại Lộc	Đại Lãnh	68	5.9%	0.0%
	3	507.Điện Bàn	Điện Hồng	67	1.5%	0.0%
	4	519.Nông Sơn	Quế Trung	65	1.5%	0.0%
	5	517.Núi Thành	Tam Quang	63	0.0%	0.0%
505.Quảng Ngãi	1	524.Bình Sơn	Bình Minh	65	3.1%	0.0%
	2		Bình Chương	47	2.1%	0.0%
	3		Bình Mỹ	55	7.3%	1.8%
	4	527.Sơn Tịnh	Sơn Tịnh	45	2.2%	0.0%
	5		Tịnh Khê	66	1.5%	0.0%
601.Kon Tum	1	617.Tu Mơ Rông	Măng Ri	44	4.5%	0.0%
	2		Tu Mơ Rông	20	5.0%	0.0%
	3		Đắk Hà	51	2.0%	0.0%
	4		Tê Xăng	36	0.0%	0.0%
	5		Văn Xuôi	80	1.3%	0.0%
603.Gia Lai	1	625.KBang	Tơ Tung	48	2.1%	0.0%
	2	626.Đắk Đoa	la Bằng	77	16.9%	5.2%
	3	628.la Grai	la Bả	32	3.1%	3.1%
	4	632.Chư Prông	la Pior	54	7.4%	3.7%
	5	633.Chư Sê	AL Bá	66	13.6%	3.0%



II. Summary of the report by province

Table 1 Area surveyed and date of survey

Province	Date of survey	
	From	To
Quang Nam	05/11/09	08/11/09
Quang Ngai	05/11/09	07/11/09
Kon Tum	10/11/09	13/11/09
Gia Lai	10/11/09	14/11/09

Table 2 Distribution of age and sex of sample

Province	Boys		Girls		Total		Ratio
	no.	%	No.	%	no.	%	Boy:girl
Quang Nam	159	48.5	169	51.5	328	100	0.9
Quang Ngai	164	53.2	144	46.8	308	100	1.1
Kon Tum	114	49.4	117	50.6	231	100	1.0
Gia Lai	149	53.8	128	46.2	277	100	1.2

Table 3 Prevalence of global malnutrition (<-2 z-score and/or oedema)

Province	All	Boys	Girls
Quang Nam	(12) 3.7 %	(8) 5.1 %	(4) 2.4 %
	(1.7 - 7.9 95% C.I.)	(1.9 - 12.9 95% C.I.)	(1.3 - 4.4 95% C.I.)
Quang Ngai	(23) 7.5 %	(10) 6.1 %	(13) 9.0 %
	(3.3 - 16.0 95% C.I.)	(3.0 - 11.9 95% C.I.)	(2.4 - 28.7 95% C.I.)
Kon Tum	(9) 3.9 %	(8) 7.1 %	(1) 0.9 %
	(1.3 - 11.4 95% C.I.)	(2.8 - 16.9 95% C.I.)	(0.1 - 11.0 95% C.I.)
Gia Lai	(43) 15.6 %	(26) 17.6 %	(17) 13.3 %
	(6.4 - 33.2 95% C.I.)	(7.0 - 37.7 95% C.I.)	(5.3 - 29.3 95% C.I.)

Table 4 Prevalence of severe malnutrition (<-3 z-score and/or oedema)

Province	All	Boys	Girls
Quang Nam	(2) 0.6 %	(2) 1.3 %	(0) 0.0 %
	(0.0 - 7.5 95% C.I.)	(0.1 - 13.4 95% C.I.)	(0.0 - 0.0 95% C.I.)
Quang Ngai	(5) 1.6 %	(3) 1.8 %	(2) 1.4 %
	(0.2 - 12.4 95% C.I.)	(0.3 - 11.1 95% C.I.)	(0.1 - 17.5 95% C.I.)
Kon Tum	(1) 0.4 %	(1) 0.9 %	(0) 0.0 %
	(0.0 - 5.9 95% C.I.)	(0.1 - 10.9 95% C.I.)	(0.0 - 0.0 95% C.I.)
Gia Lai	(16) 5.8 %	(11) 7.4 %	(5) 3.9 %
	(2.5 - 12.9 95% C.I.)	(2.9 - 18.0 95% C.I.)	(1.6 - 9.5 95% C.I.)

III. Summary of the report by provinces and clusters

1. Distribution of age and sex of sample

Table 5 Quang Nam

	Boys		Girls		Total		Ratio
	no.	%	no.	%	no.	%	Boy:girl
0-11 months	34	51	33	49	67	20	1
12-23 months	50	48	55	52	105	32	0.9
24-35 months	53	58	39	42	92	28	1.4
36-47 months	15	36	27	64	42	13	0.6
48-59 months	7	32	15	68	22	6.7	0.5
Total	159	49	169	52	328	100	0.9

Table 6 Quang Ngai

	Boys		Girls		Total		Ratio
	no.	%	no.	%	no.	%	Boy:girl
0-11 months	50	44	64	56	114	37	0.8
12-23 months	59	58	43	42	102	33	1.4
24-35 months	31	63	18	37	49	16	1.7
36-47 months	13	48	14	52	27	8.8	0.9
48-59 months	11	69	5	31	16	5.2	2.2
Total	164	53	144	47	308	100	1.1

Table 7 Kon Tum

	Boys		Girls		Total		Ratio
	no.	%	no.	%	no.	%	Boy:girl
0-11 months	30	47	34	53	64	28	0.9
12-23 months	31	50	31	50	62	27	1
24-35 months	25	47	28	53	53	23	0.9
36-47 months	20	51	19	49	39	17	1.1
48-59 months	8	62	5	39	13	5.6	1.6
Total	114	49	117	51	231	100	1

Table 8 Gia Lai

	Boys		Girls		Total		Ratio
	no.	%	no.	%	no.	%	Boy:girl
0-11 months	36	46	43	54	79	29	0.8
12-23 months	57	57	43	43	100	36	1.3
24-35 months	27	56	21	44	48	17	1.3
36-47 months	17	61	11	39	28	10	1.5
48-59 months	12	55	10	46	22	7.9	1.2
Total	149	54	128	46	277	100	1.2

2. Mean z-scores, Design Effects and excluded subjects

Table 9 Quang Nam

Indicator	n	Mean z-scores \pm SD	Design Effect (z-score < -2)	z-scores not available*	z-scores out of range
Weight-for-Height	326	-0.27 \pm 1.01	1.13	2	0
Weight-for-Age	327	-0.87 \pm 1.11	1.36	1	0
Height-for-Age	327	-1.26 \pm 1.28	1.38	1	0

Table 10 Quang Ngai

Indicator	n	Mean z-scores \pm SD	Design Effect (z-score < -2)	z-scores not available*	z-scores out of range
Weight-for-Height	306	-0.49 \pm 1.15	1.56	2	0
Weight-for-Age	306	-1.01 \pm 1.19	3.44	2	0
Height-for-Age	308	-1.22 \pm 1.27	4.96	0	0

Table 11 Kon Tum

Indicator	n	Mean z-scores \pm SD	Design Effect (z-score < -2)	z-scores not available*	z-scores out of range
Weight-for-Height	230	-0.44 \pm 0.92	1.38	1	0
Weight-for-Age	231	-1.60 \pm 0.91	1.21	0	0
Height-for-Age	230	-2.25 \pm 1.16	1	1	0

Table 12 Gia Lai

Indicator	n	Mean z-scores \pm SD	Design Effect (z-score < -2)	z-scores not available*	z-scores out of range
Weight-for-Height	276	-1.01 \pm 1.20	5.38	0	1
Weight-for-Age	277	-1.76 \pm 1.22	5.55	0	0
Height-for-Age	277	-1.85 \pm 1.41	4.36	0	0

3. Prevalence of acute malnutrition based on weight-for-height z-scores (and/or oedema) and by sex

Table 13 Quang Nam

	All n = 326	Boys n = 158	Girls n = 168
Prevalence of global malnutrition (<-2 z-score and/or oedema)	(12) 3.7 % (1.7 - 7.9 95% C.I.)	(8) 5.1 % (1.9 - 12.9 95% C.I.)	(4) 2.4 % (1.3 - 4.4 95% C.I.)
Prevalence of moderate malnutrition (<-2 z-score and >=-3 z-score, no oedema)	(10) 3.1 % (1.8 - 5.3 95% C.I.)	(6) 3.8 % (1.9 - 7.6 95% C.I.)	(4) 2.4 % (1.3 - 4.4 95% C.I.)
Prevalence of severe malnutrition (<-3 z-score and/or oedema)	(2) 0.6 % (0.0 - 7.5 95% C.I.)	(2) 1.3 % (0.1 - 13.4 95% C.I.)	(0) 0.0 % (0.0 - 0.0 95% C.I.)

Table 14 Quang Ngai

	All n = 308	Boys n = 164	Girls n = 144
Prevalence of global malnutrition (<-2 z-score and/or oedema)	(23) 7.5 % (3.3 - 16.0 95% C.I.)	(10) 6.1 % (3.0 - 11.9 95% C.I.)	(13) 9.0 % (2.4 - 28.7 95% C.I.)
Prevalence of moderate malnutrition (<-2 z-score and >=-3 z-score, no oedema)	(18) 5.8 % (3.1 - 10.6 95% C.I.)	(7) 4.3 % (1.3 - 12.8 95% C.I.)	(11) 7.6 % (2.5 - 20.8 95% C.I.)
Prevalence of severe malnutrition (<-3 z-score and/or oedema)	(5) 1.6 % (0.2 - 12.4 95% C.I.)	(3) 1.8 % (0.3 - 11.1 95% C.I.)	(2) 1.4 % (0.1 - 17.5 95% C.I.)

Table 15 Kon Tum

	All n = 230	Boys n = 113	Girls n = 117
Prevalence of global malnutrition (<-2 z-score and/or oedema)	(9) 3.9 % (1.3 - 11.4 95% C.I.)	(8) 7.1 % (2.8 - 16.9 95% C.I.)	(1) 0.9 % (0.1 - 11.0 95% C.I.)
Prevalence of moderate malnutrition (<-2 z-score and >=-3 z-score, no oedema)	(8) 3.5 % (1.0 - 11.3 95% C.I.)	(7) 6.2 % (2.2 - 16.4 95% C.I.)	(1) 0.9 % (0.1 - 11.0 95% C.I.)
Prevalence of severe malnutrition (<-3 z-score and/or oedema)	(1) 0.4 % (0.0 - 5.9 95% C.I.)	(1) 0.9 % (0.1 - 10.9 95% C.I.)	(0) 0.0 % (0.0 - 0.0 95% C.I.)

Table 16 Gia Lai

	All	Boys	Girls
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	n = 276	n = 148	n = 128
Prevalence of global malnutrition (<-2 z-score and/or oedema)	(43) 15.6 % (6.4 - 33.2 95% C.I.)	(26) 17.6 % (7.0 - 37.7 95% C.I.)	(17) 13.3 % (5.3 - 29.3 95% C.I.)
Prevalence of moderate malnutrition (<-2 z-score and >=-3 z-score, no oedema)	(27) 9.8 % (3.9 - 22.3 95% C.I.)	(15) 10.1 % (4.2 - 22.7 95% C.I.)	(12) 9.4 % (3.3 - 23.6 95% C.I.)
Prevalence of severe malnutrition (<-3 z-score and/or oedema)	(16) 5.8 % (2.5 - 12.9 95% C.I.)	(11) 7.4 % (2.9 - 18.0 95% C.I.)	(5) 3.9 % (1.6 - 9.5 95% C.I.)

4. Prevalence of acute malnutrition by age based on weight-for-height z-scores and/or oedema

Table 17 Quang Nam

Age (mths)	Total no.	Severe wasting (<-3 z-score)		Moderate wasting (≥ -3 and < -2 z-score)		Normal (≥ -2 z score)		Oedema	
		No.	%	No.	%	No.	%	No.	%
0-11	67	1	1.5	0	0	66	98.5	0	0
12-23	104	1	1	1	1	102	98.1	0	0
24-35	92	0	0	8	8.7	84	91.3	0	0
36-47	41	0	0	0	0	41	100	0	0
48-59	22	0	0	1	4.5	21	95.5	0	0
Total	326	2	0.6	10	3.1	314	96.3	0	0

Table 18 Quang Ngai

Age (mths)	Total no.	Severe wasting (<-3 z-score)		Moderate wasting (≥ -3 and < -2 z-score)		Normal (≥ -2 z score)		Oedema	
		No.	%	No.	%	No.	%	No.	%
0-11	114	1	0.9	4	3.5	109	95.6	0	0
12-23	102	1	1	6	5.9	93	91.2	2	2
24-35	49	1	2	5	10.2	43	87.8	0	0
36-47	27	0	0	2	7.4	25	92.6	0	0
48-59	16	0	0	1	6.3	15	93.8	0	0
Total	308	3	1	18	5.8	285	92.5	2	0.6

Table 19 Kon Tum

Age (mths)	Total no.	Severe wasting (<-3 z-score)		Moderate wasting (≥ -3 and < -2 z-score)		Normal (≥ -2 z score)		Oedema	
		No.	%	No.	%	No.	%	No.	%
0-11	64	1	1.6	0	0	63	98.4	0	0
12-23	61	0	0	5	8.2	56	91.8	0	0
24-35	53	0	0	2	3.8	51	96.2	0	0
36-47	39	0	0	1	2.6	38	97.4	0	0
48-59	13	0	0	0	0	13	100	0	0
Total	230	1	0.4	8	3.5	221	96.1	0	0

Table 20 Gia Lai

	Severe wasting	Moderate	Normal	Oedema
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		(<-3 z-score)		wasting (>= -3 and <-2 z-score)		(> = -2 z score)			
Age (mths)	Total no.	No.	%	No.	%	No.	%	No.	%
0-11	79	8	10.1	7	8.9	64	81	0	0
12-23	99	5	5.1	16	16.2	78	78.8	0	0
24-35	48	2	4.2	1	2.1	45	93.8	0	0
36-47	28	1	3.6	1	3.6	26	92.9	0	0
48-59	22	0	0	2	9.1	20	90.9	0	0
Total	276	16	5.8	27	9.8	233	84.4	0	0

5. Prevalence of underweight based on weight-for-age z-scores by sex

Table 21 Quang Nam

	All n = 327	Boys n = 158	Girls n = 169
Prevalence of underweight (<-2 z-score)	(43) 13.1 % (8.5 - 19.8 95% C.I.)	(17) 10.8 % (6.2 - 17.9 95% C.I.)	(26) 15.4 % (7.8 - 28.2 95% C.I.)
Prevalence of moderate underweight (<-2 z-score and >=-3 z-score)	(35) 10.7 % (7.2 - 15.7 95% C.I.)	(13) 8.2 % (4.6 - 14.2 95% C.I.)	(22) 13.0 % (7.6 - 21.4 95% C.I.)
Prevalence of severe underweight (<-3 z-score)	(8) 2.4 % (0.8 - 7.0 95% C.I.)	(4) 2.5 % (0.8 - 7.5 95% C.I.)	(4) 2.4 % (0.4 - 13.6 95% C.I.)

Table 22 Quang Ngai

	All n = 306	Boys n = 164	Girls n = 142
Prevalence of underweight (<-2 z-score)	(60) 19.6 % (10.9 - 32.6 95% C.I.)	(35) 21.3 % (10.7 - 38.0 95% C.I.)	(25) 17.6 % (10.3 - 28.4 95% C.I.)
Prevalence of moderate underweight (<-2 z-score and >=-3 z-score)	(46) 15.0 % (7.4 - 28.0 95% C.I.)	(28) 17.1 % (7.0 - 36.0 95% C.I.)	(18) 12.7 % (8.3 - 19.0 95% C.I.)
Prevalence of severe underweight (<-3 z-score)	(14) 4.6 % (3.0 - 6.9 95% C.I.)	(7) 4.3 % (1.5 - 11.7 95% C.I.)	(7) 4.9 % (2.3 - 10.3 95% C.I.)

Table 23 Kon Tum

	All n = 231	Boys n = 114	Girls n = 117
Prevalence of underweight (<-2 z-score)	(78) 33.8 % (25.6 - 43.0 95% C.I.)	(43) 37.7 % (31.0 - 45.0 95% C.I.)	(35) 29.9 % (19.2 - 43.4 95% C.I.)
Prevalence of moderate underweight (<-2 z-score and >=-3 z-score)	(62) 26.8 % (21.8 - 32.5 95% C.I.)	(35) 30.7 % (23.7 - 38.7 95% C.I.)	(27) 23.1 % (12.8 - 38.1 95% C.I.)
Prevalence of severe underweight (<-3 z-score)	(16) 6.9 % (2.9 - 15.5 95% C.I.)	(8) 7.0 % (3.4 - 14.1 95% C.I.)	(8) 6.8 % (1.7 - 24.2 95% C.I.)

Table 24 Gia Lai

	All n = 277	Boys n = 149	Girls n = 128
Prevalence of underweight (<-2 z-score)	(119) 43.0 % (26.5 - 61.1 95% C.I.)	(68) 45.6 % (29.6 - 62.6 95% C.I.)	(51) 39.8 % (22.4 - 60.4 95% C.I.)
Prevalence of moderate underweight (<-2 z-score and >=-3 z-score)	(79) 28.5 % (20.1 - 38.7 95% C.I.)	(45) 30.2 % (24.3 - 36.9 95% C.I.)	(34) 26.6 % (15.1 - 42.3 95% C.I.)
Prevalence of severe underweight (<-3 z-score)	(40) 14.4 % (7.6 - 25.8 95% C.I.)	(23) 15.4 % (7.1 - 30.3 95% C.I.)	(17) 13.3 % (6.7 - 24.7 95% C.I.)

6. Prevalence of underweight by age based on weight-for-age z-scores and oedema

Table 25 Quang Nam

Age (mths)	Total no.	Severe underweight (<-3 z-score)		Moderate underweight (>= -3 and <-2 z-score)		Normal (> = -2 z score)		Oedema	
		No.	%	No.	%	No.	%	No.	%
0-11	67	0	0	2	3	65	97	0	0
12-23	105	1	1	9	8.6	95	90.5	0	0
24-35	92	4	4.3	10	10.9	78	84.8	0	0
36-47	41	0	0	8	19.5	33	80.5	0	0
48-59	22	3	13.6	6	27.3	13	59.1	0	0
Total	327	8	2.4	35	10.7	284	86.9	0	0

Table 26 Quang Ngai

Age (mths)	Total no.	Severe underweight (<-3 z-score)		Moderate underweight (>= -3 and <-2 z-score)		Normal (> = -2 z score)		Oedema	
		No.	%	No.	%	No.	%	No.	%
0-11	114	1	0.9	9	7.9	104	91.2	0	0
12-23	100	6	6	16	16	78	78	2	2
24-35	49	4	8.2	12	24.5	33	67.3	0	0
36-47	27	3	11.1	6	22.2	18	66.7	0	0
48-59	16	0	0	3	18.8	13	81.3	0	0
Total	306	14	4.6	46	15	246	80.4	2	0.7

Table 27 Kon Tum

Age (mths)	Total no.	Severe underweight (<-3 z-score)		Moderate underweight (>= -3 and <-2 z-score)		Normal (> = -2 z score)		Oedema	
		No.	%	No.	%	No.	%	No.	%
0-11	64	1	1.6	6	9.4	57	89.1	0	0
12-23	62	4	6.5	23	37.1	35	56.5	0	0
24-35	53	4	7.5	17	32.1	32	60.4	0	0
36-47	39	6	15.4	13	33.3	20	51.3	0	0
48-59	13	1	7.7	3	23.1	9	69.2	0	0
Total	231	16	6.9	62	26.8	153	66.2	0	0

Table 28 Gia Lai

Age (mths)	Total no.	Severe underweight (<-3 z-score)		Moderate underweight (>= -3 and <-2 z-score)		Normal (> = -2 z score)		Oedema	
		No.	%	No.	%	No.	%	No.	%
0-11	79	7	8.9	21	26.6	51	64.6	0	0
12-23	100	16	16	32	32	52	52	0	0
24-35	48	12	25	5	10.4	31	64.6	0	0
36-47	28	3	10.7	10	35.7	15	53.6	0	0
48-59	22	2	9.1	11	50	9	40.9	0	0
Total	277	40	14.4	79	28.5	158	57	0	0

7. Prevalence of stunting based on height-for-age z-scores and by sex

Table 29 Quang Nam

	All n = 327	Boys n = 159	Girls n = 168
Prevalence of stunting (<-2 z-score)	(93) 28.4 % (21.5 - 36.5 95% C.I.)	(44) 27.7 % (20.7 - 36.0 95% C.I.)	(49) 29.2 % (17.0 - 45.2 95% C.I.)
Prevalence of moderate stunting (<-2 z-score and >=-3 z-score)	(69) 21.1 % (15.8 - 27.7 95% C.I.)	(32) 20.1 % (13.1 - 29.6 95% C.I.)	(37) 22.0 % (12.0 - 37.0 95% C.I.)
Prevalence of severe stunting (<-3 z-score)	(24) 7.3 % (3.9 - 13.4 95% C.I.)	(12) 7.5 % (3.5 - 15.5 95% C.I.)	(12) 7.1 % (3.8 - 13.0 95% C.I.)

Table 30 Quang Ngai

	All n = 308	Boys n = 164	Girls n = 144
Prevalence of stunting (<-2 z-score)	(79) 25.6 % (14.0 - 42.1 95% C.I.)	(52) 31.7 % (16.4 - 52.4 95% C.I.)	(27) 18.8 % (11.6 - 28.9 95% C.I.)
Prevalence of moderate stunting (<-2 z-score and >=-3 z-score)	(54) 17.5 % (7.4 - 36.1 95% C.I.)	(37) 22.6 % (8.1 - 49.0 95% C.I.)	(17) 11.8 % (5.8 - 22.5 95% C.I.)
Prevalence of severe stunting (<-3 z-score)	(25) 8.1 % (5.0 - 12.9 95% C.I.)	(15) 9.1 % (3.5 - 21.9 95% C.I.)	(10) 6.9 % (2.9 - 15.8 95% C.I.)

Table 31 Kon Tum

	All n = 230	Boys n = 113	Girls n = 117
Prevalence of stunting (<-2 z-score)	(145) 63.0 % (56.7 - 68.9 95% C.I.)	(76) 67.3 % (52.2 - 79.4 95% C.I.)	(69) 59.0 % (46.0 - 70.8 95% C.I.)
Prevalence of moderate stunting (<-2 z-score and >=-3 z-score)	(83) 36.1 % (25.1 - 48.8 95% C.I.)	(40) 35.4 % (23.9 - 48.9 95% C.I.)	(43) 36.8 % (18.2 - 60.3 95% C.I.)
Prevalence of severe stunting (<-3 z-score)	(62) 27.0 % (19.4 - 36.1 95% C.I.)	(36) 31.9 % (24.5 - 40.3 95% C.I.)	(26) 22.2 % (10.7 - 40.5 95% C.I.)

Table 32 Gia Lai

	All n = 277	Boys n = 149	Girls n = 128
Prevalence of stunting (<-2 z-score)	(129) 46.6 % (31.3 - 62.5 95% C.I.)	(76) 51.0 % (35.4 - 66.4 95% C.I.)	(53) 41.4 % (25.1 - 59.9 95% C.I.)
Prevalence of moderate stunting (<-2 z-score and >=-3 z-score)	(76) 27.4 % (20.3 - 36.0 95% C.I.)	(45) 30.2 % (24.5 - 36.6 95% C.I.)	(31) 24.2 % (13.4 - 39.7 95% C.I.)
Prevalence of severe stunting (<-3 z-score)	(53) 19.1 % (10.2 - 32.9 95% C.I.)	(31) 20.8 % (10.3 - 37.5 95% C.I.)	(22) 17.2 % (9.9 - 28.1 95% C.I.)

8. Prevalence of stunting by age based on height-for-age z-scores

Table 33 Quang Nam

Age (mths)	Total no.	Severe stunting (<-3 z-score)		Moderate stunting (>= -3 and <-2 z-score)		Normal (>= -2 z score)	
		No.	%	No.	%	No.	%
0-11	67	0	0	4	6	63	94
12-23	104	7	6.7	19	18.3	78	75
24-35	92	11	12	24	26.1	57	62
36-47	42	1	2.4	17	40.5	24	57.1
48-59	22	5	22.7	5	22.7	12	54.5
Total	327	24	7.3	69	21.1	234	71.6

Table 34 Quang Ngai

Age (mths)	Total no.	Severe stunting (<-3 z-score)		Moderate stunting (>= -3 and <-2 z-score)		Normal (>= -2 z score)	
		No.	%	No.	%	No.	%
0-11	114	3	2.6	7	6.1	104	91.2
12-23	102	10	9.8	24	23.5	68	66.7
24-35	49	7	14.3	11	22.4	31	63.3
36-47	27	5	18.5	9	33.3	13	48.1
48-59	16	0	0	3	18.8	13	81.3
Total	308	25	8.1	54	17.5	229	74.4

Table 35 Kon Tum

Age (mths)	Total no.	Severe stunting (<-3 z-score)		Moderate stunting (>= -3 and <-2 z-score)		Normal (>= -2 z score)	
		No.	%	No.	%	No.	%
0-11	64	3	4.7	16	25	45	70.3
12-23	61	21	34.4	22	36.1	18	29.5
24-35	53	21	39.6	21	39.6	11	20.8
36-47	39	14	35.9	17	43.6	8	20.5
48-59	13	3	23.1	7	53.8	3	23.1
Total	230	62	27	83	36.1	85	37

Table 36 Gia Lai

Severe stunting	Moderate stunting	Normal
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Age (mths)	Total no.	No.	%	No.	%	No.	%
0-11	79	7	8.9	12	15.2	60	75.9
12-23	100	22	22	33	33	45	45
24-35	48	17	35.4	12	25	19	39.6
36-47	28	4	14.3	9	32.1	15	53.6
48-59	22	3	13.6	10	45.5	9	40.9
Total	277	53	19.1	76	27.4	148	53.4