CHAPTER – 6

Result - 3

Assessment of nutritional status using different anthropometric indicators

Age, area and sex specific prevalence of undernutrition

6.1: Age and area specific prevalence of nutritional status among girls

6.2: Age and area specific prevalence of nutritional status among boys

6.3: Age and sex specific prevalence of nutritional status among children of nonindustrial area

6.4: Age and sex specific prevalence of nutritional status among children of industrial area

6.5: Age, area and sex specific Prevalence of undernutrition based on CIAF.

6.1: **Age and area specific prevalence of nutritional status among girls**

Table 6.1.1 and figure 6.1 present prevalence of underweight among girls. Area differences of prevalence of underweight were found in 5, 7 and 8 years aged children. This table also showed that higher prevalence of underweight was observed in nonindustrial area (50.00%) compare to industrial area (29.00) at the age of 7 years. Higher prevalence (45.00%) of underweight was found in 8 years nonindustrial girls in comparison to industrial girls (25.00%). Over all prevalence (40.57%) of underweight was greater in nonindustrial area than industrial area.

Table 6.1.2 and figure 6.2 present prevalence of stunting among girls. In nonindustrial area prevalence of stunting (19.40%, 40.00%, 38.70%, and 33.30%) was very high in comparison to industrial area (3.20%, 25.80%, 25.00%, and 19.40%) at the age of 6, 7, 8 and 12 years respectively. Prevalence of stunted and not stunted children of two areas was significantly different at age of 6 years. This table also presented that over all prevalence of stunting were higher (28.10%) in nonindustrial area compare to industrial area (22.60%).

Table 6.1.3 and figure 6.3 represent prevalence of wasting among girls. 28.10% girls were wasted in nonindustrial area at the age of 9 years. Prevalence of wasted and not wasted girls of two areas was significantly different at the age of 9 and 11 years. Over all prevalence of wasting was higher in nonindustrial area (29.39%) compare to industrial area. 78% girls were nutritionally not wasted in industrial area that was greater than (70.60%) nonindustrial area.

Table 6.1.4 and figure 6.4 present prevalence of thinness among girls. Area specific differences of prevalence of normal and overweight were found in 5 and 9 years aged children. That was also statistically significant (x^2 = 14.71, p<0.001 for 5 years and x^2 = 10.59, p<0.001for 9 years). 71.56% girls were nutritionally thin in nonindustrial area that was greater than industrial area (62.10%). Higher prevalence of nutritionally normal (32.05%) and overweight (27.80%) girls were found in industrial area than nonindustrial area.

6.2: Age and area specific prevalence of nutritional status among boys

Prevalence of underweight among boys is presented in table 6.2.1 and figure 6.1. Differences of prevalence of underweight were found in two areas at the age of 3, 6, 8, 10 and 12 years. 3 years aged boys of two areas were also statistically different (x^2 = 8.24, p<0.01) on the

basis of nutritional status. Nonindustrial boys was statistically different (x^2 = 3.60p<0.05) from industrial boys at the age of 6 years on the basis of nutritional status. Prevalence of underweight and not underweight boys of two areas were statistically different (x^2 = 8.82, p<0.01) at the age of 8 years. Overall prevalence of underweight and not underweight boys of two areas were significantly different (x^2 = 20.22, p<0.001).

Table 6.2.2 and figure 6.2 present prevalence of stunting among school going boys. Overall higher prevalence of stunting was found in nonindustrial area compare to industrial area. Prevalence of stunted and not stunted boys of two areas were significantly different (x^2 = 4.32, p<0.05) at the age of 8 years.

Table 6.2.3 and figure 6.3 show that prevalence of wasting among school going boys. Differences of prevalence of stunting were found in 4, 6 and 11 years aged boys of two areas. Significant area difference was found in (x^2 = 3.84, p<0.05) 6 years aged children on the basis of nutritional status. In nonindustrial area overall higher prevalence of wasting was observed in comparison to industrial area. That was also statistically significant (x^2 = 8.30, p<0.001).

Table 6.2.4 and figure 6.4 present prevalence of nutritional status among boys of two areas. 6 years boys of two areas were significantly (x^2 = 9.88, p<0.005) different from each other on the basis of nutritional status. 69.48 % boys were nutritionally thin in nonindustrial area. Overall prevalence of boys of two areas were significantly (x^2 = 11.66, p<0.05) different from each other based on nutritional status.

6.3: Age and sex specific prevalence of nutritional status among children of nonindustrial area

Table 6.3.1 and figure 6.1 represent prevalence of underweight among studied children. Sexual differences of underweight children were found at the age of 4 and 6 years. Overall 48.70% boys were underweight. Significant (x^2 = 4.14, p<0.05) sexual difference was found between prevalence of underweight and not underweight children.

Table 6.3.2 and figure 6.2 show that prevalence of stunting among the studied children. Maximum difference was found in sex specific nutritional categories at the age of 4 years. That was not statistically significant. No significant sex differences were found in overall prevalence of nutritional categories.

Prevalence of wasted and not wasted children is depicted in the table no 5.7.3 and figure 5.3. 32.10 % boys and 29.40 % girls were wasted. Out of total girls 70.60 % girls were not wasted as well as out of total boys 67.90 % boys were not wasted. Maximum differences between prevalence of wasted and not wasted were found in 4, 6 and 9 years aged children.

Table 6.3.4 and figure 6.4 present prevalence of thinness among school going children of nonindustrial area. Children were sexually dimorphic (x^2 = 10.57, p<0.01) at the age of 5 years. This table is also showed that 9 years old children were also sexually different (x^2 = 9.63, p<0.05) in respect of nutritional status.

6.4: Age and sex specific prevalence of nutritional status among children of industrial area

Prevalence of underweight among children of industrial area is presented in table 6.4.1 and figure 6.1. Out of total boys 54.80 % were underweight. 7 and 10 years aged children were sexually different in respect of their nutritional status. Overall higher (33.80%) prevalence of underweight was found in girls than boys.

Table 6.4.2 and figure 6.2 represent prevalence of stunting among school going children. Stunted and not stunted children were sexually dimorphic (x^2 = 4.94, p<0.05) at the age of 6 years.

Table 6.4.3 and figure 6.3 represent prevalence of wasted children. No significant sex differences were found in nutritional status. Overall higher prevalence of wasting was observed in girls (22.00%) than the boys.

Table 6.4.4 and figure 6.4 show that prevalence of thinness among school going children of industrial area. 12 years aged children were sexually different (x^2 12.22, p<0.01) on the basis of nutritional status. Overall higher prevalence of thinness (65.29%) was found in girls than boys.

6.5: Age, area and sex specific Prevalence of undernutrition based on CIAF.

Underweight, stunting and wasting has been commonly utilized to assess the prevalence of undernutrition among the children. As well as the prevalence of these indices were overlapping of the children into multiple categories of anthropometric failure. Composite Index of Anthropometric Failure (CIAF) is an index which is representing single and multi

anthropometric failure conditions. So CIAF is more appropriate indices for easily estimation of under nutrition among the children.

Table 6.5.1 presents that out of 1242, 53.50 % school going children were suffering from anthropometric failure. 46.50% participants were nutritionally normal. There was some participants were suffering with stunting, wasting and underweight. The prevalence of these categories was 3.50%, 11.020%, and 6.80% respectively. This table is also showed that 4.90% participants were suffering from three categories of undernutrition. Some participants were also suffering from wasting and underweight. 9.80%. 17.20% children were suffering from both categories such as stunting and underweight. 53.50 % school going children were suffered from single and multi anthropometric failure.

Table 6.5.2 and figure 6.5 represent prevalence of non failure and failure among school going children. Higher prevalence of CIAF was found in nonindustrial area (52.30%) in comparison to industrial area (40.60%). 59.40% and 47.70% participants of nonindustrial and industrial participants were suffering from single and multi anthropometric failure. This table also represented prevalence of anthropometric failure and non failure of two areas were statistically different ($x^2 = 34.19$, p<0.001).

Table 6.5.3.1 depicts that age and area specific prevalence of CIAF among school going girls. Overall higher (58.79%) prevalence of CIAF was observed in nonindustrial girls. Overall prevalence of CIAF of two areas was significantly (x^2 - 5.06, p<0.01) different. Significant area differences were found in prevalence of CIAF among girls at the age of 7 (x^2-4.87, p<0.05) and 8 ($x^2 = 3.77$, p<0.05) years (figure 6.6).

Table 6.5.3.2 and figure 6.6 present that age and area specific prevalence of CIAF among school going boys. Overall higher (60.06%) prevalence of CIAF was observed in nonindustrial boys than industrial area. Overall prevalence of CIAF of two areas was significantly ($x^2 = 13.20$, p<0.001) different. Significant differences were found in prevalence of CIAF among boys at the age of 8 ($x^2 = 6.15$, p<0.01) years.

Table 6.5.4.1 and figure 6.6 depict that age and sex specific prevalence of CIAF among school going children of nonindustrial area. Overall higher (60.06%) prevalence of CIAF was

observed in boys compare to girls. Result of x^2 test showed that no significant sex differences were observed in all age groups. Age combined overall prevalence of CIAF was not significantly different.

Table 6.5.4.2 represents that age and sex specific prevalence of CIAF among school going children of industrial area. Overall higher (49.68%) prevalence of CIAF was observed in girls. Result of x^2 test showed that no significant sex differences were found in all age groups except 7 years ($x^2 = 4.17$, p <0.05). Age combined overall prevalence of CIAF was not significantly different (figure 6.6).

Summary of Results

The important of this chapter are summarized below

- Age combined overall higher prevalence of underweight, stunting, and wasting was found in nonindustrial area compare to the industrial area.
- Overall higher prevalence of underweight, wasted, and stunted boys was found in nonindustrial area than industrial area.
- Industrial boys had better health than nonindustrial area.
- Age combined overall 48.70% girls were underweight. Sexual difference was found in prevalence of underweight and not underweight, that was statistically significant ($x^2 = 4.14$.p<0.05).
- Children were sexually dimorphic at the age of 5 and 9 years on the basis of prevalence of thinness.
- Higher prevalence of underweight was found at the age of 7 years aged boys than the girls, but higher prevalence of underweight was observed in girls compare to boys within 10 years aged children.
- Higher prevalence of thinness was found in girls compare to boys at the age of 11 years.
- Prevalence of anthropometric failure and non failure of two areas were statistically different $x^2 = 34.19$, p<0.001).

6.1: Age and area specific prevalence of nutritional status among girls

Table 6.1.1: Prevalence (%) of underweight among girls

Age in Years	Areas	n	Underweight (%)	Not underweight (%)	x^2
3	Nonindustrial	31	15(48.40)	16(51.60)	2.16
	Industrial	30	9(45.20)	21(70.00)	
4	Nonindustrial	30	9(30.00)	21(70.00)	0.51
	Industrial	31	12(38.70)	19(61.00)	
5	Nonindustrial	32	7(21.90)	25(78.10)	2.83
	Industrial	34	14(41.20)	20(58.80)	
6	Nonindustrial	31	13(41.90)	18(58.10)	1.12
	Industrial	31	9(29.00)	22(71.00)	
7	Nonindustrial	30	15(50.00)	15(50.00)	2.80
	Industrial	31	9(29.00)	22(71.00)	
8	Nonindustrial	31	14(45.00)	19(61.30)	2.82
	Industrial	32	8(25.00)	24(75.00)	
9	Nonindustrial	32	18(56.20)	14(43.80)	1.03
	Industrial	30	13(43.30)	17(56.70)	
10	Nonindustrial	34	15(44.11)	19(55.90)	0.01
	Industrial	33	15(45.50)	18(54.50)	
11	Nonindustrial	32	13(40.60)	19(59.40)	0.47
	Industrial	31	10(32.30)	21(67.70)	
12	Nonindustrial	30	8(26.70)	22(73.30)	0.13
	Industrial	31	7(22.60)	24(77.40)	
Total	**Nonindustrial**	**313**	**127(40.57)***	**186(59.40)***	2.51
	Industrial	**314**	**106(33.75)***	**208(66.20)***	

(%) – Percentage was done by no. of participants of separate age group and area

(%)* - Percentage was done by total participants of separate area

Table 6.1.2: Prevalence (%) of stunting among girls

Age in Years	Area	N	Stunted (%)	Not stunted (%)	x^2
3	Nonindustrial	31	2(6.50)	29(93.50)	.001
	Industrial	30	2(6.70)	28(93.70)	
4	Nonindustrial	30	3(10.00)	27(90.00)	1.76
	Industrial	31	7(22.60)	24(77.00)	
5	Nonindustrial	32	4(12.50)	28(87.50)	0.06
	Industrial	34	5(14.50)	29(85.3)	
6	Nonindustrial	31	6(19.40)	25(80.60)	4.02*
	Industrial	31	1(3.20)	30(96.80)	
7	Nonindustrial	30	12(40.00)	18(60.00)	1.39
	Industrial	31	8(25.80)	23(74.00)	
8	Nonindustrial	31	12(38.70)	19(61.30)	1.36
	Industrial	32	8(25.00)	24(75.00)	
9	Nonindustrial	32	15(46.90)	17(53.10)	0.66
	Industrial	30	11(36.70)	19(63.30)	
10	Nonindustrial	34	12(35.30)	22(64.70)	0.35
	Industrial	33	14(42.40)	19(57.6)	
11	Nonindustrial	32	12(37.50)	20(62.50)	0.50
	Industrial	31	9(29.00)	22(71.00)	
12	Nonindustrial	30	10(33.30)	20(66.70)	1.54
	Industrial	31	6(19.40)	25(80.60)	
Total	**Nonindustrial**	**313**	**88(28.10)***	**225(71.90)***	**3.12**
	Industrial	**314**	**71(22.60)***	**243(77.40)***	

(%) – Percentage was done by no. of participants of separate age group and area

(%)* - Percentage was done by total participants of separate area

t*= p<0.05

Table 6.1.3: Prevalence (%) of wasting among girls

Age in Years	Area	N	Wasted (%)	Not wasted (%)	x^2
3	Nonindustrial	31	18(58.10)	13(41.90)	**1.32**
	Industrial	30	13(43.30)	18(28.10)	
4	Nonindustrial	30	11(36.70)	19(63.30)	**2.02**
	Industrial	31	17(54.80)	14(45.20)	
5	Nonindustrial	32	13(40.60)	19(59.40)	**0.48**
	Industrial	34	11(32.4	23(67.60)	
6	Nonindustrial	31	8(25.80)	23(74.20)	**0.68**
	Industrial	31	11(35.50)	20(64.50)	
7	Nonindustrial	30	7(23.30)	23(76.70)	**0.50**
	Industrial	31	5(16.10)	26(83.90)	
8	Nonindustrial	31	11(35.50)	20(64.50)	**1.43**
	Industrial	32	7(21.90)	25(78.10)	
9	Nonindustrial	32	9(28.10)	23(71.90)	**7.03****
	Industrial	30	1(3.30)	29(96.70)	
10	Nonindustrial	34	7(20.60)	27(79.40)	**3.08**
	Industrial	33	2(6.10)	31(93.90)	
11	Nonindustrial	32	6(18.80)	26(81.20)	**3.82***
	Industrial	31	1(3.20)	30.(96.80)	
12	Nonindustrial	30	2(6.70)	28(93.30)	**0.38**
	Industrial	31	1(3.20)	30(96.80)	
Total	**Nonindustrial**	**313**	**92(29.39)***	**221(70.60)***	**4.52***
	Industrial	**314**	**69(21.97)***	**245(78.00)***	

(%) – Percentage was done by no. of participants of separate age group and area

(%)* - Percentage was done by total participants of separate area

t*= p<0.05, t**= p<0.01

Table 6.1.4: Prevalence (%) of thinness among girls

Age in Years	Area	n	Thinness-III (%)	Thinness-II (%)	Thinness-I (%)	Total thinness (%)	Normal (%)	Over weight (%)	x^2
3	Nonindustrial	31	19(61.30)	7(22.60)	3(9.70)	29(93.60)	2(6.50)	0(0.00)	**2.72**
	Industrial	30	17(56.70)	4(13.30)	4(13.30)	25(83.30)	4(13.30)	1(3.33)	
4	Nonindustrial	30	13(43.30)	3(10.00)	8(26.70)	24(80.00)	6(20.00)	0(0.00)	**3.40**
	Industrial	31	15(48.40)	3(9.70)	3(9.70)	21(67.80)	10(32.30)	0(0.00)	
5	Nonindustrial	32	4(12.50)	4(12.50)	16(50.00)	32(75.00)	8(25.00)	0(0.00)	**14.71****
	Industrial	34	19(55.90)	3(8.80)	6(17.60)	28(82.30)	6(17.60)	0(0.00)	
6	Nonindustrial	31	8(25.80)	7(22.60)	6(19.40)	21(67.80)	9(29.00)	1(3.20)	**1.94**
	Industrial	31	10(32.2)	8(25.80)	4(12.90)	22(70.90)	7(22.60)	2(6.40)	
7	Nonindustrial	30	7(23.30)	6(20.00)	9(30.00)	22(73.30)	8(26.70)	0(0.00)	**2.39**
	Industrial area	31	5(16.10)	7(22.60)	9(29.00)	21(67.70)	8(25.80)	2(6.40)	
8	Nonindustrial	31	7(22.60)	6(19.40)	10(32.30)	23(74.30)	8(25.80)	0(0.00)	**5.38**
	Industrial	32	2(6.20)	9(28.10)	8(25.00)	19(59.30)	12(37.50)	1(3.12)	
9	Nonindustrial	32	9(28.10)	6(18.80)	8(25.00)	23(71.90)	9(28.10)	0(0.00)	**10.59****
	Industrial	30	0(0.00)	5(16.70)	11(36.70)	16(53.40)	14(46.70)	0(0.00)	
10	Nonindustrial	34	6(17.60)	6(17.60)	10(29.40)	22(64.60)	12(35.30)	0(0.00)	**2.24**
	Industrial	33	4(12.10)	6(18.20)	7(21.20)	17(51.50)	15(45.50)	1(3.03)	
11	Nonindustrial	32	7(21.90)	2(6.20)	9(28.10)	18(56.20)	14(43.80)	0(0.00)	**6.02**
	Industrial	31	1(3.20)	2(6.50)	15(48.40)	18(58.10)	13(41.90)	0(0.00)	
12	Nonindustrial	30	4(13.30)	5(16.50)	9(30.00)	18(59.80)	11(36.70)	1(3.33)	**1.85**
	Industrial	31	4(12.90)	3(9.70)	11(35.50)	18(58.10)	13(41.90)	0(0.00)	
Total	**Nonindustrial**	**313**	**84(26.08)***	**52(16.60)***	**88(28.10)***	**224(71.56)***	**87(27.80)***	**2(0.60)***	**5.80**
	Industrial	**314**	**77(24.05)***	**50(15.90)***	**78(24.08)***	**205(65.29)***	**102(32.05)***	**7(2.23)***	

(%) – Percentage was done by no. of participants of separate age group and area

(%)* - Percentage was done by total participants of separate area

t**= p<0.01

6.2: Age and area specific prevalence of nutritional status among boys

Table 6.2.1: Prevalence (%) of underweight among boys

Age in Years	Area	n	Underweight (%)	Not Underweight (%)	x^2
3	Nonindustrial	31	16(51.60)	15(48.40)	8.24**
	Industrial	30	5(16.70)	25(83.30)	
4	Nonindustrial	32	17(53.10	15(46.90)	2.46
	Industrial	30	10(33.30)	20(66.70)	
5	Nonindustrial	30	11(36.70)	19(63.30)	0.27
	Industrial	30	13(43.30)	17(56.70)	
6	Nonindustrial	31	20(64.50)	11(35.50)	3.60*
	Industrial	32	13(40.60)	19(59.40)	
7	Nonindustrial	30	17(56.70)	13(43.30)	0.02
	Industrial	31	17(54.80)	14(45.20)	
8	Nonindustrial	30	18(60.00)	12(40.00)	8.82**
	Industrial	31	7(22.60)	24(77.40)	
9	Nonindustrial	30	12(40.00)	18(60.00)	1.20
	Industrial	30	8(26.70)	22(73.30)	
10	Nonindustrial	31	14(45.20)	17(54.80)	4.72*
	Industrial	31	6(19.40)	25(80.60)	
11	Nonindustrial	31	12(38.70)	19(61.30)	0.12
	Industrial	32	11(34.40)	21(65.60)	
12	Nonindustrial	32	13(40.60)	19(59.40)	4.31*
	Industrial	30	5(16.70)	25(83.30)	
Total	**Nonindustrial**	**308**	**150(47.92)***	**158(51.30)***	**20.22***
	Industrial	**307**	**95(30.25)***	**212(69.10)***	

(%) – Percentage was done by no. of participants of separate age group and area

(%)* - Percentage was done by total participants of separate area

t*= p<0.05, t**= p<0.01, t***=p<0.001

Table 6.2.2: Prevalence (%) of stunting among boys

Age in Years	Area	n	Stunted (%)	Not stunted (%)	x^2
3	Nonindustrial	31	1(3.20)	30(96.80)	**0.98**
	Industrial	30	0(0)	30(100)	
4	Nonindustrial	32	9(28.10)	23(71.90)	**1.16**
	Industrial	30	5(16.70)	25(83.30)	
5	Nonindustrial	30	6(20.00)	24(80.00)	**0.00**
	Industrial	30	6(20.00)	24(80.00)	
6	Nonindustrial	31	7(22.60)	24(77.40)	**0.01**
	Industrial	32	7(21.90)	25(78.10)	
7	Nonindustrial	30	11(36.70)	19(63.30)	**0.85**
	Industrial	31	15(48.40)	16(51.60)	
8	Nonindustrial	30	12(40.00)	18(60.00)	**4.32***
	Industrial	31	5(22.60)	26(83.90)	
9	Nonindustrial	30	10(33.30)	20(66.70)	**0.31**
	Industrial	30	8(26.70)	22(73.30)	
10	Nonindustrial	31	12(38.70)	19(61.30)	**1.89**
	Industrial	31	7(22.60)	24(77.40)	
11	Nonindustrial	31	12(38.70)	19(61.30)	**0.38**
	Industrial	32	10(31.20)	22(68.80)	
12	Nonindustrial	32	8(25.00)	24(75.00)	**0.19**
	Industrial	30	9(30.00)	21(70.00)	
Total	**Nonindustrial**	**308**	**88(28.12)***	**220(71.40)***	**2.09**
	Industrial	**307**	**72(22.93)***	**307(76.50)***	

(%) – Percentage was done by no. of participants of separate age group and area

(%)* - Percentage was done by total participants of separate area

t*= p<0.05

Table 6.2.3: Prevalence (%) of wasting among boys

Age in Years	Area	N	Wasted (%)	Not wasted (%)	x^2
3	Nonindustrial	31	19(61.30)	12(38.70)	**0.78**
	Industrial	30	15(50.00)	15(50.00)	
4	Nonindustrial	32	18(56.20)	14(43.80)	**2.38**
	Industrial	30	11(36.70)	19(63.30)	
5	Nonindustrial	30	12(40.00)	18(60.00)	**0.07**
	Industrial	30	11(36.70)	19(63.30)	
6	Nonindustrial	31	14(45.20)	17(54.80)	**3.84***
	Industrial	32	7(21.90)	25(78.10)	
7	Nonindustrial	30	7(23.30)	23(76.70)	**0.14**
	Industrial	31	6(19.40)	25(80.60)	
8	Nonindustrial	30	8(26.70)	22(73.30)	**1.01**
	Industrial	31	5(16.10)	26(83.90)	
9	Nonindustrial	30	3(10.00)	27(90.00)	**0.00**
	Industrial	30	3(10.00)	27(90.00)	
10	Nonindustrial	31	6(19.40)	25(80.60)	**0.47**
	Industrial	31	4(12.90)	27(87.10)	
11	Nonindustrial	31	7(22.60)	24(77.40)	**2.05**
	Industrial	32	3(9.40)	29(90.60)	
12	Nonindustrial	32	5(15.60)	27(84.40)	**1.24**
	Industrial	30	2(6.70)	28(93.30)	
Total	**Nonindustrial**	**308**	**99(31.63)***	**209(67.90)***	**8.30****
	Industrial	**307**	**67(21.40)***	**240(78.20)***	

(%) – Percentage was done by no. of participants of separate age group and area

(%)* - Percentage was done by total participants of separate area

t*= p<0.05, t**= p<0.01,

Table 6.2.4: Prevalence (%) of thinness among boys

Age in Years	Area	N	Thinness-III (%)	Thinness-II (%)	Thinness-I (%)	Total thinness (%)	Normal (%)	Over weight (%)	x^2
3	Nonindustrial	31	19(61.30)	6(19.40)	1(3.20)	26(83.90)	5(16.10)	0(0.00)	**2.15**
	Industrial	30	16(53.03)	6(20.00)	4(13.30)	26(86.33)	4(13.30)	0(0.00)	
4	Nonindustrial	32	16(50.00)	5(15.60)	3(9.40)	24(75.00)	8(25.00)	0(0.00)	**4.29**
	Industrial	30	8(26.70)	8(26.70)	6(20.00)	22(73.40)	8(26.07)	0(0.00)	
5	Nonindustrial	30	11(36.70)	5(16.70)	4(13.30)	20(53.40)	10(33.30)	0(0.00)	**3.02**
	Industrial	30	10(33.30)	4(13.30)	8(26.70)	22(73.30)	7(23.30)	1(3.33)	
6	Nonindustrial	31	14(45.20)	2(6.50)	10(32.30)	26(84.00)	5(16.10)	0(0.00)	**9.88***
	Industrial	32	6(18.80)	5(15.60)	7(21.90)	18(56.30)	12(37.50)	2(6.25)	
7	Nonindustrial	30	5(16.70)	8(26.70)	10(33.30)	23(76.70)	7(23.30)	0(0.00)	**7.43**
	Industrial	31	6(19.40))	1(3.20)	14(45.20)	21(67.80)	9(29.00)	1(3.22)	
8	Nonindustrial	30	5(16.70)	5(16.70)	14(46.70)	24(80.10)	6(20.00)	0(0.00)	**4.94**
	Industrial	31	2(6.50)	4(12.90)	11(35.50)	17(54.90)	14(45.20)	0(0.00)	
9	Nonindustrial	30	2(6.70)	2(6.70)	12(40.00)	16(53.40)	12(40.00)	2(6.66)	**2.71**
	Industrial	30	3(10.00)	2(6.70)	10(33.30)	15(50.00)	15(50.00)	0(0.00)	
10	Nonindustrial	31	7(22.60)	3(9.70)	9(29.00)	19(61.30)	11(35.50)	1(3.22)	**8.64**
	Industrial	31	0(0.00)	2(6.50)	14(45.20)	16(51.70)	14(45.20)	1(3.22)	
11	Nonindustrial	31	5(16.10)	1(3.20)	11(35.50)	17(54.80)	14(45.20)	0(0.00)	**7.34**
	Industrial	32	5(15.60)	4(12.50)	4(12.50)	13(40.60)	17(53.10)	2(6.25)	
12	Nonindustrial	32	4((12.50)	5(15.60)	9(28.10)	18(56.20)	14(43.80)	0(0.00)	**2.6**
	Industrial	30	2(6.70)	4(13.30)	5(16.70)	11(36.70)	19(63.30)	0(0.00)	
Total	**Nonindustrial**	**308**	**88(28.06)***	**42(13.60)***	**83(26.90)***	**213(69.48)***	**92(29.90)***	**3(1.00)***	**11.66***
	Industrial	**307**	**58(18.90)***	**40(13.00)***	**83(27.00)***	**181(58.95)***	**119(38.80)***	**7(2.28)***	

(%) – Percentage was done by no. of participants of separate age group and area

(%)* - Percentage was done by total participants of separate area

t*= p<0.05

6.3: Age and sex specific prevalence of nutritional status among children of nonindustrial area

Table 6.3.1: Prevalence (%) of underweight among nonindustrial children

Age in Years	Sex	N	Underweight (%)	Not Underweight (%)	x^2
3	Boys	31	16(51.60)	15(48.40)	**0.06**
	Girls	31	15(48.40)	16(51.60)	
4	Boys	32	17(53.10)	15(46.90)	**3.4**
	Girls	30	9(30.00)	21(70.00)	
5	Boys	30	11(36.70)	19(63.30)	**1.64**
	Girls	32	7(21.90)	25(78.10)	
6	Boys	31	20(64.50)	11(35.50)	**3.17**
	Girls	31	13(41.90)	18(58.10)	
7	Boys	30	17(56.70)	13(43.30)	**0.26**
	Girls	30	15(50.00)	15(50.00)	
8	Boys	30	18(60.00)	12(40.00)	**1.34**
	Girls	31	14(45.20)	17(54.80)	
9	Boys	30	12(40.00)	18(60.00)	**1.63**
	Girls	32	18(56.20)	14(43.80)	
10	Boys	31	14(45.80)	17(54.80	**0.01**
	Girls	34	15(44.10)	19(55.90)	
11	Boys	31	12(38.70)	19(61.30)	**0.02**
	Girls	32	13(40.60)	19(59.40)	
12	Boys	32	13(40.60)	19(59.40)	**1.34**
	Girls	30	8(26.70)	22(73.30)	
Total	**Boys**	**308**	**150(48.70)***	**158(51.30)***	**4.14***
	Girls	**313**	**127(40.60)***	**186(59.40)***	
Sex Combined		**621**	**277(44.61)**	**344(55.39)**	

(%) – Percentage was done by no. of participants of separate age group and area

(%)* - Percentage was done by total participants of separate area

t*= p<0.05

Table 6.3.2: Prevalence (%) of stunting among nonindustrial children

Age in Years	Sex	N	Stunted (%)	Not stunted (%)	x^2
3	Boys	31	1(3.20)	30(96.80)	**0.35**
	Girls	31	2(6.50)	29(93.50)	
4	Boys	32	9(28.10)	23(71.90)	**3.26**
	Girls	30	3(10.00)	27(90.00)	
5	Boys	30	6(20.00)	24(80.00)	**0.64**
	Girls	32	4(12.50)	28(87.50)	
6	Boys	31	7(22.60)	24(77.40)	**0.09**
	Girls	31	6(19.40)	25(80.60)	
7	Boys	30	11(36.70)	19(63.30)	**0.07**
	Girls	30	12(40.00)	18(60.00)	
8	Boys	30	12(40.00)	18(60.00)	**0.01**
	Girls	31	12(38.70)	19(61.30)	
9	Boys	30	10(33.30)	20(66.70)	**1.18**
	Girls	32	15(46.90)	17(53.10)	
10	Boys	31	12(38.70)	19(61.30)	**0.08**
	Girls	34	12(35.30)	22(64.70)	
11	Boys	31	12(38.70)	19(61.30)	**0.01**
	Girls	32	12(37.50)	20(62.50)	
12	Boys	32	8(25.00)	24(75.00)	**0.52**
	Girls	30	10(33.30)	20(66.70)	
Total	**Boys**	**308**	**88(28.60)**	**220(71.40)**	**0.02**
	Girls	**313**	**88(28.10)**	**225(71.90)**	
Sex Combined		**621**	**176(28.34)**	**445(71.66)**	

(%) – Percentage was done by no. of participants of separate age group and area

(%)* - Percentage was done by total participants of separate area

Table 6.3.3: Prevalence (%) of wasting among nonindustrial children

Age in Years	Sex	N	Wasted (%)	Not wasted (%)	x^2
3	Boys	31	19(61.30)	12(38.70)	**0.06**
	Girls	31	18(58.10)	13(41.90)	
4	Boys	32	18(56.20)	14(43.80)	**2.38**
	Girls	30	11(36.70)	19(63.30)	
5	Boys	30	12(40.00)	18(60.00)	**0.01**
	Girls	32	13(40.60)	19(59.40)	
6	Boys	31	14(45.20)	17(54.80)	**2.53**
	Girls	31	8(25.80)	23(74.20)	
7	Boys	30	7(23.30)	23(76.70)	**0.00**
	Girls	30	7(23.30)	23(76.70)	
8	Boys	30	8(26.70)	22(73.30)	**0.55**
	Girls	31	11(35.50)	20(64.50)	
9	Boys	30	3(10.00)	27(90.00)	**3.26**
	Girls	32	9(28.10)	23(71.90)	
10	Boys	31	6(19.40)	25(80.60)	**0.02**
	Girls	34	7(20.60)	27(79.40)	
11	Boys	31	7(22.60)	24(77.40)	**0.14**
	Girls	32	6(18.80)	26(81.20)	
12	Boys	32	5(15.60)	27(84.40)	**1.24**
	Girls	30	2(6.70)	28(93.30)	
Total	**Boys**	**308**	**99(32.10)***	**209(67.90)***	**0.55**
	Girls	**313**	**92(29.40)***	**221(70.60)***	
Sex Combined		**621**	**191(30.76)**	**430(69.24)**	

(%) – Percentage was done by no. of participants of separate age group and area

(%)* - Percentage was done by total participants of separate area

Table 6.3.4: Prevalence (%) of thinness among nonindustrial children

Age in Years	Sex	N	Thinness-III (%)	Thinness-II (%)	Thinness-I (%)	Total thinness(%)	Normal (%)	Over weight(%)	x^2
3	Boys	31	19(61.30)	6(19.40)	1(3.20)	26(83.87)	5(16.10)	0(0.00)	**2.36**
	Girls	31	19(61.30)	7(22.60)	3(9.70)	29(93.55)	2(6.50)	0(0.00)	
4	Boys	32	16(50.00)	5(15.60)	3(9.40)	24(75.00)	8(25.00)	0(0.00)	**3.31**
	Girls	30	13(43.30)	3(10.00)	8(26.70)	24(80.00)	6(20.00)	0(0.00)	
5	Boys	30	11(36.70)	5(16.70)	4(13.30)	20(66.67)	10(33.30)	0(0.00)	**10.75****
	Girls	32	4(12.50)	4(12.50)	16(50.00)	24(75.00)	8(25.00)	0(0.00)	
6	Boys	31	14(45.20)	2(6.50)	10(32.30)	26(83.87)	5(16.10)	0(0.00)	**7.56**
	Girls	31	8(25.80)	7(22.60)	6(19.40)	21(67.74)	9(29.00)	1(3.20)	
7	Boys	30	5(16.70)	8(26.70)	10(33.30)	23(76.67)	7(23.30)	0(0.00)	**0.73**
	Girls	30	7(23.30)	6(20.00)	9(26.70)	22(73.33)	8(26.70)	0(0.00)	
8	Boys	30	5(16.70)	5(16.70)	14(46.70)	24(80.00)	6(20.00)	0(0.00)	**1.36**
	Girls	31	7(22.60)	6(19.40)	10(32.30)	23(74.19)	8(25.80)	0(0.00)	
9	Boys	30	2(6.70)	2(6.70)	12(40.00)	16(53.33)	12(40.00)	2(6.70)	**9.63***
	Girls	32	9(28.10)	6(18.80)	8(25.00)	23(71.88)	9(28.10)	0(0.00)	
10	Boys	31	7(22.60)	3(9.70)	9(29.00)	19(61.29)	11(35.50)	1(3.20)	**2.04**
	Girls	34	6(17.60)	6(17.60)	10(29.40)	22(64.71)	12(35.30)	0(0.00)	
11	Boys	31	5(16.12)	1(3.22)	11(35.48)	17(54.84)	14(45.16)	0(0.00)	**0.85**
	Girls	32	7(21.87)	2(6.25)	9(28.13)	18(56.25)	14(43.75)	0(0.00)	
12	Boys	32	4(12.50)	5(15.60)	9(28.10)	18(56.25)	14(43.80)	0(0.00)	**1.28**
	Girls	30	4(13.30)	5(16.70)	9(30.00)	18(60.00)	11(36.70)	1(3.30)	
Total	**Boys**	308	**88(28.60)**	**42(13.8)**	**83(26.90)**	**213(69.19)**	**92(29.90)**	**3(1.00)**	**1.60**
	Girls	313	**84(26.80)**	**52(16.6)**	**88(28.10)**	**224(71.75)**	**87(27.80)**	**2(0.60)**	
Sex Combined		621	**172(27.69)**	**94(15.1)**	**171(27.5)**	**437(70.37)**	**179(28.82)**	**5(0.81)**	

(%) – Percentage was done by no. of participants of separate age group and area

(%)* - Percentage was done by total participants of separate area

t*= p<0.05, t**= p<0.01

6.4: Age and sex specific prevalence of nutritional status among children of industrial area

Table 6.4.1: Prevalence (%) of underweight among industrial children

Age in Years	Sex	N	Underweight (%)	Not underweight (%)	x^2
3	Boys	30	5(16.70)	25(83.30)	1.49
	Girls	30	9(30.00)	21(70.00)	
4	Boys	30	10(33.30)	20(66.70)	0.19
	Girls	31	12(38.30)	19(61.30)	
5	Boys	30	13(43.30)	17(56.70)	0.30
	Girls	34	14(41.20)	20(58.80)	
6	Boys	32	13(40.60)	19(59.40)	0.93
	Girls	31	9(29.00)	22(71.00)	
7	Boys	31	17(54.80)	14(45.20)	4.23*
	Girls	31	9(29.00)	22(71.00)	
8	Boys	31	7(22.60)	24(77.40)	0.05
	Girls	32	8(25.00)	24(75.00)	
9	Boys	30	8(26.70)	22(73.30)	1.83
	Girls	30	13(43.30)	17(56.70)	
10	Boys	31	6(19.40)	25(80.60)	4.94*
	Girls	33	15(45.50)	18(54.50)	
11	Boys	32	11(34.40)	21(65.60)	0.03
	Girls	31	10(32.30)	21(67.70)	
12	Boys	30	5(16.70)	25(83.30)	0.33
	Girls	31	7(22.60)	24(77.40)	
Total	Boys	307	95(30.90)*	212(69.10)*	0.56
	Girls	314	106(33.80)*	208(66.20)*	
Sex Combined		621	201(32.37)	420(67.63)	

(%) – Percentage was done by no. of participants of separate age group and area

(%)* - Percentage was done by total participants of separate area

t*= p<0.05

Table 6.4.2: Prevalence (%) of stunting among industrial children

Age in Years	Sex	N	Stunted (%)	Not stunted (%)	x^2
3	Boys	30	0(0.00)	30(100.00)	2.07
	Girls	30	2(6.70)	28(93.30)	
4	Boys	30	5(16.70)	25(83.30)	0.33
	Girls	31	7(22.60)	24(77.40)	
5	Boys	30	6(20.00)	24(80.00)	0.31
	Girls	34	5(14.70)	29(85.30)	
6	Boys	32	7(21.90)	25(78.10)	4.94*
	Girls	31	1(3.20)	30(96.80)	
7	Boys	31	15(48.40)	16(51.60)	3.38
	Girls	31	8(25.80)	23(74.20)	
8	Boys	31	5(16.10)	26(83.90)	0.75
	Girls	32	8(25.00)	24(75.00)	
9	Boys	30	8(26.70)	22(73.30)	0.69
	Girls	30	11(36.70)	19(63.30)	
10	Boys	31	7(22.60)	24(77.40)	2.86
	Girls	33	14(42.40)	19(57.60)	
11	Boys	32	10(31.20)	22(68.80)	0.04
	Girls	31	9(29.00)	22(71.00)	
12	Boys	30	9(30.00)	21(70.00)	0.93
	Girls	31	6(19.40)	25(80.00)	
Total	Boys	307	72(23.50)*	235(76.50)*	0.06
	Girls	314	71(22.60)*	243(77.40)*	
Sex Combined		621	143(23.03)	478(76.97)	

(%) – Percentage was done by no. of participants of separate age group and area

(%)* - Percentage was done by total participants of separate area

t*= p<0.05,

Table 6.4.3: Prevalence (%) of wasting among industrial children

Age in Years	Sex	N	Wasted (%)	Not wasted (%)	x^2
3	Boys	30	15(50.00)	15(50.00)	**0.27**
	Girls	30	13(43.30)	17(56.70)	
4	Boys	30	11(36.70)	19(63.30)	**2.02**
	Girls	31	17(54.80)	14(45.20)	
5	Boys	30	11(36.70)	19(63.30)	**0.13**
	Girls	34	11(32.40)	23(67.60)	
6	Boys	32	7(21.90)	25(78.10)	**1.42**
	Girls	31	11(35.50)	20(64.50)	
7	Boys	31	6(19.40)	25(80.60)	**0.11**
	Girls	31	5(16.10)	26(83.90)	
8	Boys	31	5(16.10)	26(83.90)	**0.34**
	Girls	32	7(21.90)	25(78.10)	
9	Boys	30	3(10.00)	27(90.00)	**1.07**
	Girls	30	1(3.30)	29(96.70)	
10	Boys	31	4(12.90)	27(87.10)	**0.88**
	Girls	33	2(6.10)	31(93.30)	
11	Boys	32	3(9.40)	29(90.60)	**1.00**
	Girls	31	1(3.20)	30(96.80)	
12	Boys	30	2(6.70)	28(93.30)	**0.38**
	Girls	31	1(3.20)	30(96.80)	
Total	**Boys**	**307**	**67(21.80)***	**240(78.20)***	**0.01**
	Girls	**314**	**69(22.00)***	**245(78.00)***	
Sex Combined		**621**	**136(21.90)**	**485(78.10)**	

(%) – Percentage was done by no. of participants of separate age group and area

(%)* - Percentage was done by total participants of separate area

Table 6.4.4: Prevalence (%) of thinness among industrial children

Age in Years	Sex	N	Thinness-III (%)	Thinness-II (%)	Thinness-I (%)	Total Thinness(%)	Normal (%)	Over weight (%)	x^2
3	Boys	30	16(53.30)	6(20.00)	4(13.30)	26(86.67)	4(13.30)	0(0.00)	**1.43**
	Girls	30	17(56.70)	4(13.30)	4(13.30)	25(83.33)	4(13.30)	1(3.30)	
4	Boys	30	8(26.70)	8(26.70)	6(20.00)	22(73.33)	8(26.70)	0(0.00)	**5.61**
	Girls	31	15(48.40)	3(9.70)	3(9.70)	21(67.74)	10(32.30)	0(0.00)	
5	Boys	30	10(33.30)	4(13.30)	8(26.70)	22(73.33)	7(23.30)	1(3.30)	**4.06**
	Girls	34	19(55.90)	3(8.80)	6(17.60)	28(82.35)	6(17.60)	0(0.00)	
6	Boys	32	6(18.80)	5(15.60)	7(21.90)	18(56.25)	12(37.50)	2(6.20)	**5.15**
	Girls	31	10(32.30)	8(25.80)	4(12.90)	22(70.97)	7(22.60)	2(6.20)	
	Boys	31	6(19.35)	1(3.23)	14(45.16)	21(67.74)	9(29.03)	1(3.23)	
7	Girls	31	5(16.10)	7(22.60)	9(29.00)	21(67.74)	8(25.80)	2(6.20)	**6.74**
8	Boys	31	2(6.50)	4(12.90)	11(35.50)	17(54.84)	14(45.20)	0(0.00)	**3.54**
	Girls	32	2(6.20)	9(28.10)	8(25.00)	19(59.38)	12(37.50)	1(3.10)	
9	Boys	30	3(10.00)	2(6.70)	10(33.30)	15(50.00)	15(50.00)	0(0.00)	**4.37**
	Girls	30	0(0.00)	5(16.70)	11(36.70)	16(50.00)	14(46.70)	0(0.00)	
10	Boys	31	0(0.00)	2(6.70)	14(46.70)	16(51.61)	13(43.30)	1(3.30)	**8.43**
	Girls	33	4(11.80)	6(17.60)	7(20.60)	17(51.52)	16(47.10)	1(2.90)	
11	Boys	32	5(15.60)	4(12.50)	4(12.50)	13(40.63)	17(53.10)	2(6.20)	**12.2**
	Girls	31	1(3.20)	2(6.50)	15(48.40)	18(58.06)	13(41.90)	0(0.00)	**2****
12	Boys	30	2(6.70)	4(13.30)	5(16.70)	11(36.67)	19(63.30)	0(0.00)	**4.17**
	Girls	31	4(12.90)	3(9.70)	11(35.50)	18(58.06)	13(41.90)	0(0.00)	
Total	Boys	307	58(19.00)*	40(13.10)*	83(27.10)*	181(58.96)*	118(38.0)*	7(2.30)*	**6.23**
	Girls	314	77(24.40)*	50(15.90)*	78(24.80)*	205(65.29)*	103(32.0)*	7(2.30)*	
Sex Combined		621	135(21.4)	90(14.49)	161(25.3)	386(62.16)	221(35.9)	14(2.25)	

(%) – Percentage was done by no. of participants of separate age group and area

(%)* - Percentage was done by total participants of separate area

t**= p<0.01

6.5: Age, area and sex specific prevalence of undernutrition based on CIAF.

Table 6.5.1: Prevalence (%) of CIAF among school going children

Categories	Frequency	(%)
A	577	**46.50**
B	139	**11.20**
C	122	**9.80**
D	61	**4.90**
E	214	**17.20**
F	44	**3.50**
Y	85	**6.80**
Failure	665	**53.50**
Total	**1242**	**100.00**

(%) - Percentage was done by total participants

Table 6.5.2: Area specific prevalence of CIAF (%) among school going children

Categories	Frequency		(%)		x^2
	Nonindustrial area	**Industrial area**	**Nonindustrial area**	**Industrial area**	
No Anthropometric Failure (A)	**252**	**325**	**40.60**	**52.30**	**34.19***
B	68	71	11.00	11.40	
C	73	49	11.80	7.90	
D	46	15	7.40	2.40	
E	109	105	17.60	16.90	
F	21	23	3.40	3.70	
Y	52	33	8.40	5.30	
Anthropometric Failure (B to Y)	**369**	**296**	**59.40**	**47.70**	
Total	**621**	**621**	**100**	**100**	

(%) - Percentage was done by total participants of separate area

t***=p<0.001

6.5.3: Age and area specific prevalence (%) of CIAF among school going children

Table 6.5.3.1: Age and area specific prevalence (%) of CIAF among girls

Age in years	Area	N	No Anthropometric Failure (%)	Anthropometric Failure (%)	x^2
3	Nonindustrial	31	7(22.58)	24(77.42)	2.98
	Industrial	30	13(43.33)	17(56.67)	
4	Nonindustrial	30	13(43.33)	17(56.67)	0.80
	Industrial	31	10(32.26)	21(67.74)	
5	Nonindustrial	32	15(46.88)	17(53.13)	0.50
	Industrial	34	13(38.24)	21(61.76)	
6	Nonindustrial	31	13(41.94)	18(58.06)	0.00
	Industrial	31	13(41.94)	18(58.06)	
7	Nonindustrial	30	9(30.00)	21(70.00)	4.87*
	Industrial	31	18(58.06)	13(41.94)	
8	Nonindustrial	31	9(29.03)	22(70.97)	3.77*
	Industrial	32	17(53.13)	15(46.88)	
9	Nonindustrial	32	12(37.50)	20(62.50)	0.53
	Industrial	30	14(46.67)	16(53.33)	
10	Nonindustrial	34	16(47.06)	18(52.94)	0.06
	Industrial	33	17(51.52)	16(48.48)	
11	Nonindustrial	32	16(50.00)	16(50.00)	1.36
	Industrial	31	20(64.52)	11(35.48)	
12	Nonindustrial	30	19(63.33)	11(36.67)	0.84
	Industrial	31	23(74.19)	8(25.81)	
Total	**Nonindustrial**	**313**	**129(41.21)***	**184(58.79)***	**5.06****
	Industrial	**314**	**158(50.32)***	**156(49.68)***	

(%) – Percentage was done by no. of participants of separate age group and area

(%)* - Percentage was done by total participants of separate area

t*= p<0.05, t**= p<0.01,

Table 6.5.3.2: Age and area specific prevalence (%) of CIAF among boys

Age in years	Area	N	No Anthropometric Failure (%)	Anthropometric Failure (%)	x^2
3	Nonindustrial	31	10(32.26)	21(67.74)	1.98
	Industrial	30	15(50.00)	15(50.00)	
4	Nonindustrial	32	11(34.38)	21(65.63)	2.26
	Industrial	30	16(53.33)	14(46.67)	
5	Nonindustrial	30	14(46.67)	16(53.33)	0.07
	Industrial	30	15(50.00)	15(50.00)	
6	Nonindustrial	31	10(32.26)	21(67.74)	2.80
	Industrial	32	17(53.13)	15(46.88)	
7	Nonindustrial	30	11(36.67)	19(63.33)	0.13
	Industrial	31	10(32.26)	21(67.74)	
8	Nonindustrial	30	8(26.67)	22(73.33)	6.15**
	Industrial	31	18(58.06)	13(41.94)	
9	Nonindustrial	30	15(50.00)	15(50.00)	1.71
	Industrial	30	20(66.67)	10(33.33)	
10	Nonindustrial	31	12(38.71)	19(61.29)	3.70*
	Industrial	31	19(61.29)	12(38.71)	
11	Nonindustrial	31	14(45.16)	17(54.84)	0.78
	Industrial	32	18(56.25)	14(43.75)	
12	Nonindustrial	32	18(56.25)	14(43.75)	0.32
	Industrial	30	19(63.33)	11(36.67)	
Total	**Nonindustrial**	**308**	**123(39.94)***	**185(60.06)***	**13.20***
	Industrial	**307**	**167(54.40)***	**140(45.60)***	

(%) – Percentage was done by no. of participants of separate age group and area

(%)* - Percentage was done by total participants of separate area

t*= p<0.05, t**= p<0.01, t***=p<0.001

6.5.4: Age and sex specific prevalence (%) of CIAF among school going children

Table 6.5.4.1: Age and sex specific prevalence (%) of CIAF among nonindustrial children

Age in years	Sex	N	No Anthropometric Failure (%)	Anthropometric Failure (%)	x^2
3	Boys	31	10(32.26)	21(67.74)	
	Girls	31	7(22.58)	24(77.42)	**0.73**
4	Boys	32	11(34.38)	21(65.63)	
	Girls	30	13(43.33)	17(56.67)	**0.52**
5	Boys	30	14(46.67)	16(53.33)	
	Girls	32	15(46.88)	17(53.13)	**0.00**
6	Boys	31	10(32.26)	21(67.74)	
	Girls	31	13(41.94)	18(58.06)	**0.62**
7	Boys	30	11(36.67)	19(63.33)	
	Girls	30	9(30.00)	21(70.00)	**0.3**
8	Boys	30	8(26.67)	22(73.33)	
	Girls	31	9(29.03)	22(70.97)	**0.04**
9	Boys	30	15(50.00)	15(50.00)	
	Girls	32	12(37.50)	20(62.50)	**0.98**
10	Boys	31	12(38.71)	19(61.29)	
	Girls	34	16(47.06)	18(52.94)	**0.46**
11	Boys	31	14(45.16)	17(54.84)	
	Girls	32	16(50.00)	16(50.00)	**0.19**
12	Boys	32	18(56.25)	14(43.75)	
	Girls	30	19(63.33)	11(36.67)	**0.32**
Total	**Boys**	**308**	**123(39.94)***	**185(60.06)***	
	Girls	**313**	**129(41.21)***	**184(58.79)***	**0.11**

(%) – Percentage was done by no. of participants of separate age group and area

(%)* - Percentage was done by total participants of separate area

Table 6.5.4.2: Age and sex specific prevalence of CIAF (%) among industrial children

Age in years	Sex	N	No Anthropometric Failure (%)	Anthropometric Failure (%)	x^2
3	Boys	30	15(50.00)	15(50.00)	
	Girls	30	13(43.33)	17(56.670	0.27
4	Boys	30	16(53.33)	14(46.67)	
	Girls	31	10(32.26)	21(67.74)	2.77
5	Boys	30	15(50.00)	15(50.00)	
	Girls	34	13(38.24)	21(61.76)	0.90
6	Boys	32	17(53.13)	15(46.88)	
	Girls	31	13(41.94)	18(58.06)	0.79
7	Boys	31	10(32.26)	21(67.74)	
	Girls	31	18(58.06)	13(41.94)	4.17*
8	Boys	31	18(58.06)	13(41.94)	
	Girls	32	17(53.13)	15(46.88)	0.16
9	Boys	30	20(66.67)	10(33.33)	
	Girls	30	14(46.67)	16(53.33)	2.44
10	Boys	31	19(61.29)	12(38.71)	
	Girls	33	17(51.52)	16(48.480	1.51
11	Boys	32	18(56.25)	14(43.75)	
	Girls	31	20(64.52)	11(35.48)	0.45
12	Boys	30	19(63.33)	11(36.67)	
	Girls	31	23(74.19)	8(25.81)	0.84
Total	**Boys**	**307**	**167(54.40)***	**140(45.60)***	
	Girls	**314**	**158(50.32)***	**156(49.68)***	1.21

(%) – Percentage was done by no. of participants of separate age group and area

(%)* - Percentage was done by total participants of separate area

t*= p<0.05,

Figure 6.1: Area and sex specific prevalence (%) of underweight among school going children
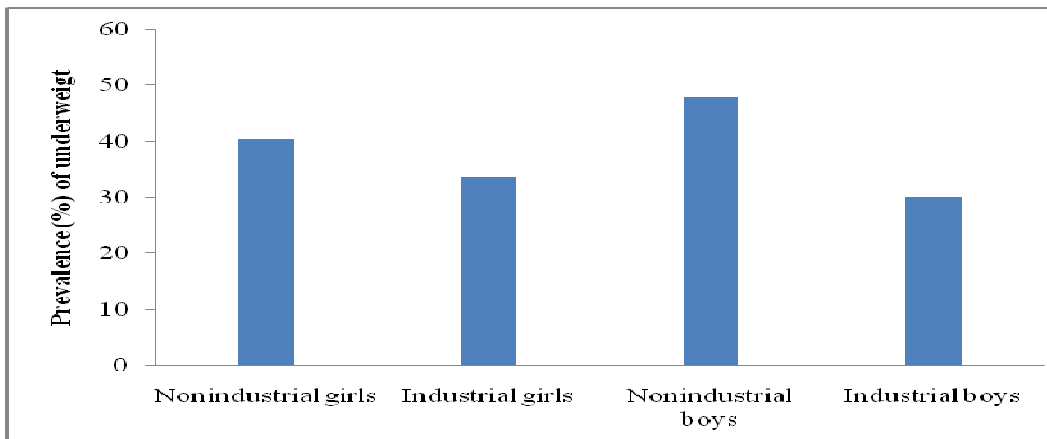

Figure 6.2: Area and sex specific prevalence (%) of stunting among school going children
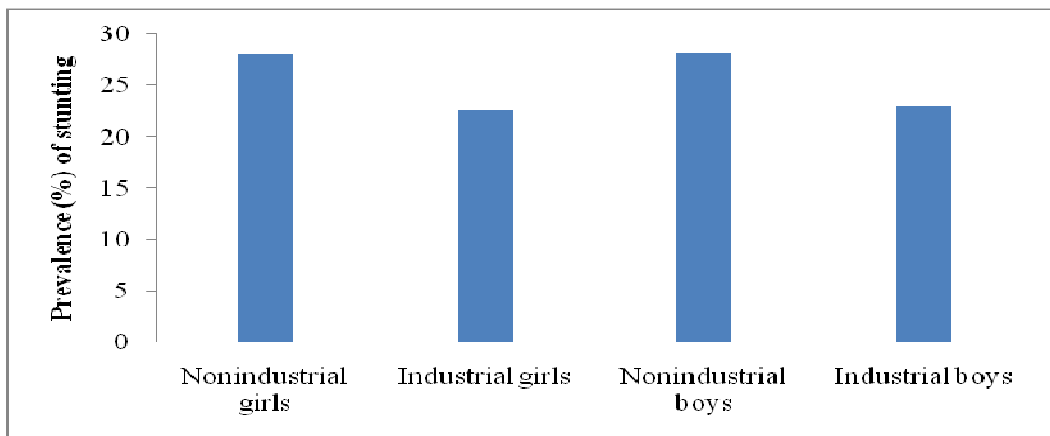

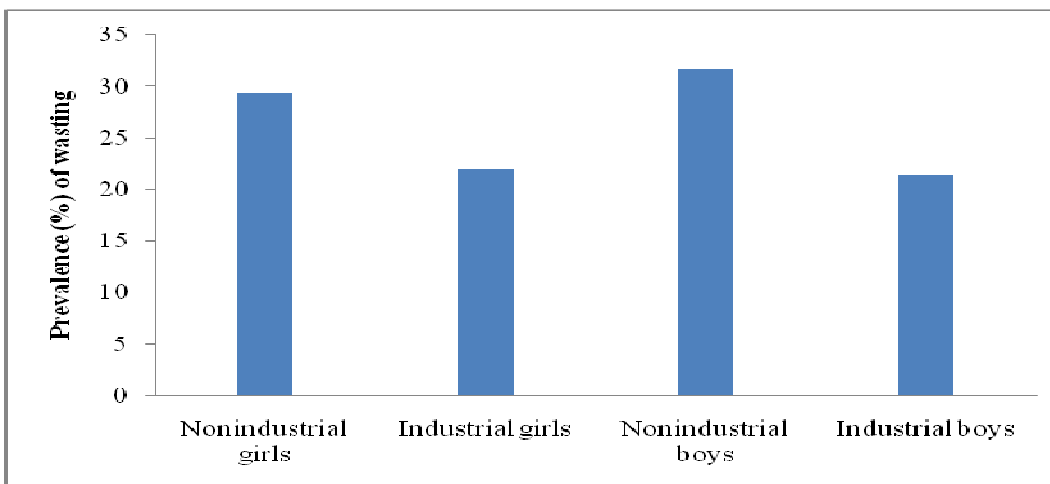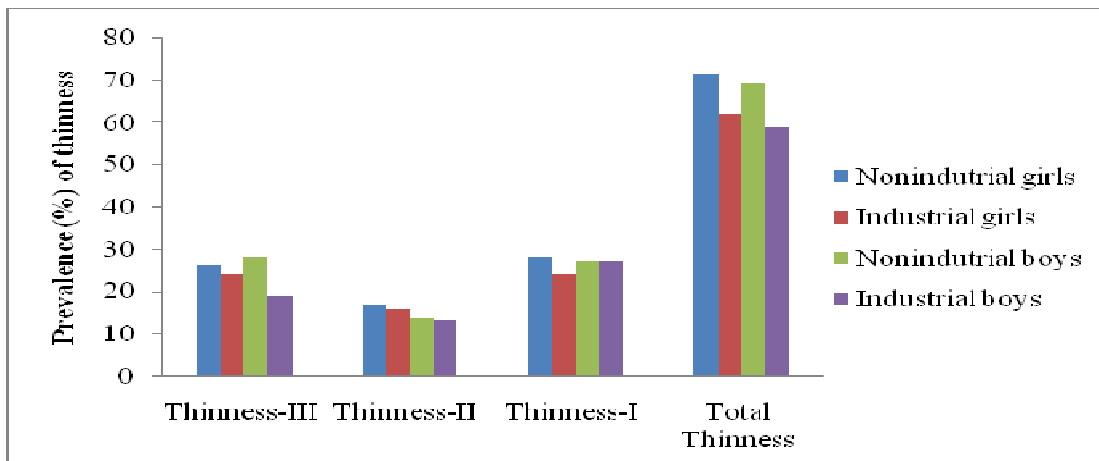**Figure 6.3: Area and sex specific prevalence (%) of wasting among school going children**

Figure 6.4: Area and sex specific prevalence (%) of thinness among school going children

6.5: Age, area and sex specific prevalence of undernutrition based on CIAF.

Figure 6.5: Area specific prevalence (%) of CIAF among school going children
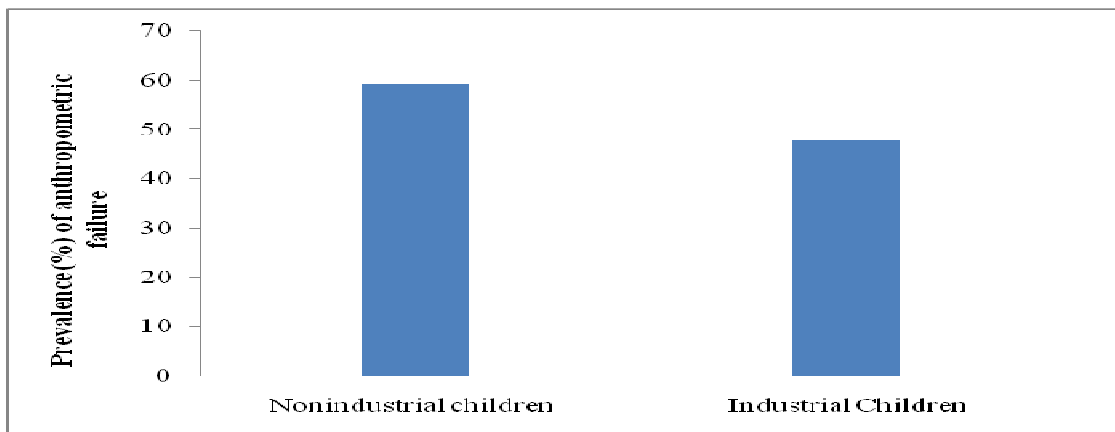

Figure 6.6: Area and sex specific prevalence (%) of CIAF among school going children