

**Table 5.1** Mean, SD, median and percentile values of anthropometric measurements for all 5-12 year old Irish children and by age group

Age groups		Weight (kg)	Height (m)	BMI (kg/m <sup>2</sup> )	Waist (cm)	Hip (cm)
5-12y	<i>n</i>	596	596	596	587	588
	Mean	33.0	1.3	18.0	62.4	74.0
	SD	11.3	0.1	3.0	9.0	10.1
	Median	30.9	1.3	17.3	60.5	72.9
	Percentile 5 <sup>th</sup>	19.7	1.1	14.7	51.5	60.2
	Percentile 75 <sup>th</sup>	39.3	1.4	19.2	66.3	80.3
	Percentile 95 <sup>th</sup>	54.2	1.6	24.3	80.6	92.0
5-8y	<i>n</i>	297	297	297	293	293
	Mean	25.7	1.2	17.0	58.0	67.7
	SD	5.8	0.1	2.2	6.0	6.5
	Median	24.6	1.2	16.5	57.1	66.2
	Percentile 5 <sup>th</sup>	18.8	1.1	14.4	50.9	59.2
	Percentile 75 <sup>th</sup>	28.5	1.3	17.8	60.6	71.4
	Percentile 95 <sup>th</sup>	37.2	1.4	21.3	70.7	81.1
9-12y	<i>n</i>	299	299	299	294	295
	Mean	40.3	1.4	19.0	66.8	80.3
	SD	10.8	0.1	3.4	9.4	9.0
	Median	38.3	1.4	18.3	64.4	79.5
	Percentile 5 <sup>th</sup>	26.5	1.3	15.0	55.6	67.2
	Percentile 75 <sup>th</sup>	45.6	1.5	20.2	70.9	85.4
	Percentile 95 <sup>th</sup>	63.3	1.6	26.1	86.8	97.5

**Table 5.2** Mean, SD, median and percentile values of anthropometric measurements by sex and age group

Sex	Age groups		Weight (kg)	Height (m)	BMI (kg/m <sup>2</sup> )	Waist (cm)	Hip (cm)
Boys	5-12y	<i>n</i>	295	295	295	291	292
		Mean	32.3	1.3	17.6	62.1	73.0
		SD	10.0	0.1	2.6	8.2	9.3
		Median	30.5	1.3	17.1	60.3	72.0
		Percentile 5 <sup>th</sup>	20.0	1.1	14.8	52.3	60.1
		Percentile 75 <sup>th</sup>	38.8	1.4	18.7	66.0	79.8
	5-8y	<i>n</i>	146	146	146	145	145
		Mean	25.5	1.2	16.7	58.0	67.2
		SD	5.6	0.1	2.0	5.8	6.3
		Median	24.6	1.2	16.2	57.1	65.8
		Percentile 5 <sup>th</sup>	19.1	1.1	14.6	51.1	59.5
		Percentile 75 <sup>th</sup>	28.0	1.3	17.4	60.1	70.4
	9-12y	<i>n</i>	149	149	149	146	147
		Mean	39.0	1.4	18.5	66.2	78.8
		SD	8.9	0.1	2.8	8.2	8.0
		Median	38.3	1.4	17.8	64.3	78.7
		Percentile 5 <sup>th</sup>	27.9	1.3	15.2	56.7	67.4
		Percentile 75 <sup>th</sup>	43.1	1.5	19.8	69.0	82.7
Girls	5-12y	<i>n</i>	301	301	301	296	296
		Mean	33.7	1.3	18.4	62.7	75.1
		SD	12.5	0.1	3.4	9.8	10.8
		Median	31.1	1.3	17.6	60.6	74.0
		Percentile 5 <sup>th</sup>	19.5	1.1	14.5	51.1	60.9
		Percentile 75 <sup>th</sup>	39.6	1.4	19.4	67.0	81.4
	5-8y	<i>n</i>	151	151	151	148	148
		Mean	25.9	1.2	17.2	58.0	68.2
		SD	6.0	0.1	2.3	6.2	6.8
		Median	24.7	1.2	16.8	57.2	66.7
		Percentile 5 <sup>th</sup>	17.8	1.1	14.3	50.4	58.6
		Percentile 75 <sup>th</sup>	29.0	1.3	18.1	60.9	72.0
	9-12y	<i>n</i>	150	150	150	148	148
		Mean	41.6	1.4	19.5	67.3	81.9
		SD	12.3	0.1	3.9	10.5	9.6
		Median	38.1	1.4	18.8	64.4	80.2
		Percentile 5 <sup>th</sup>	25.1	1.3	14.8	53.0	66.8
		Percentile 75 <sup>th</sup>	49.6	1.5	21.4	73.6	88.4
		Percentile 95 <sup>th</sup>	66.1	1.6	27.0	88.1	98.1

**Table 5.3** Mean, SD and median values of weight (kg) for all 5-12 year old Irish children by demographic and lifestyle factors and by age group

	All 5-12y				5-8y				9-12y			
	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median
<b>Location</b>												
Rural	244	33.5	11.6	31.1	118	25.7	6.2	25.1	126	40.8	10.7	38.8
Small town	88	33.6	12.5	30.6	43	25.5	5.4	24.0	45	41.2	12.5	39.3
Large town	93	32.5	10.4	31.7	49	25.9	6.4	24.0	44	39.9	9.0	39.0
City	171	32.3	10.8	30.3	87	25.6	5.1	24.9	84	39.3	10.8	36.8
<b>Education level</b>												
Primary/Intermediate	111	35.2	11.5	33.0	46	27.7	7.2	25.9	65	40.5	11.1	38.9
Secondary	229	32.3	11.7	29.9	122	25.1	5.5	24.0	107	40.6	11.3	37.2
Degree/Diploma	251	32.6	10.8	30.4	127	25.5	5.4	24.6	124	39.8	10.2	37.8
<b>Social Class</b>												
Professional, Managerial, technical	307	33.2	11.2	30.9	148	25.5	5.6	24.6	159	40.4	10.3	38.7
Non-manual	118	33.8	11.1	32.4	53	25.8	5.9	24.3	65	40.3	10.1	38.7
Skilled-manual	93	32.3	12.4	29.0	52	25.2	5.4	24.4	41	41.3	12.9	37.6
Semi-skilled, unskilled	75	31.9	11.2	30.1	42	26.5	6.9	25.2	33	38.7	12.0	36.8
<b>Socio-economic group</b>												
Employer, manager, higher professional	217	32.6	11.0	30.7	108	25.0	4.7	23.9	109	40.1	10.1	38.6
Lower professional, non-manual	226	33.7	11.4	31.7	102	25.6	5.8	24.4	124	40.3	10.5	38.4
Manual-skilled, semi-skilled, farmers	105	33.6	12.5	30.3	56	26.8	6.7	25.4	49	41.4	13.1	38.2
Unskilled, unknown	46	30.8	10.2	29.4	30	26.6	7.1	25.6	16	38.7	10.6	36.6

**Table 5.4** Mean, SD and median values of weight (kg) for all 5-12 year old Irish boys by demographic and lifestyle factors and by age group

	All 5-12y				5-8y				9-12y			
	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median
<b>Location</b>												
Rural	135	32.5	9.8	30.7	66	25.9	6.1	25.1	69	38.8	8.5	38.7
Small town	24	34.8	11.1	34.4	11	25.8	5.5	25.4	13	42.3	8.6	39.4
Large town	60	31.9	10.4	30.7	31	24.8	5.4	23.9	29	39.5	9.0	38.7
City	76	31.6	9.8	29.0	38	25.3	4.8	24.5	38	37.9	9.6	36.8
<b>Education level</b>												
Primary/Intermediate	62	35.0	9.9	33.6	26	27.7	6.0	26.2	36	40.3	8.8	40.0
Secondary	113	31.6	10.2	30.3	61	25.6	5.7	25.1	52	38.7	9.8	36.8
Degree/Diploma	119	31.6	9.8	29.4	58	24.4	5.1	23.5	61	38.5	8.2	38.0
<b>Social Class</b>												
Professional, Managerial, technical	144	32.2	10.0	30.4	68	24.8	5.4	23.8	76	38.7	8.4	38.3
Non-manual	60	33.3	9.9	32.4	26	26.1	6.0	24.8	34	38.9	8.7	38.7
Skilled-manual	51	32.6	11.9	28.4	30	25.7	5.2	25.1	21	42.6	11.8	40.9
Semi-skilled, unskilled	39	31.1	8.0	30.9	21	26.6	6.3	25.7	18	36.3	6.5	35.0
<b>Socio-economic group</b>												
Employer, manager, higher professional	102	31.1	9.9	28.5	52	24.0	3.9	23.6	50	38.5	8.7	37.8
Lower professional, non-manual	109	33.0	10.0	31.5	48	25.2	5.0	24.4	61	39.2	8.5	38.7
Manual-skilled, semi-skilled, farmers	62	33.5	11.1	30.3	34	27.7	7.2	25.6	28	40.6	10.9	38.6
Unskilled, unknown	22	31.3	7.8	31.1	12	27.2	7.2	24.9	10	36.1	5.6	34.5

**Table 5.5** Mean, SD and median values of weight (kg) for all 5-12 year old Irish girls by demographic and lifestyle factors and by age group

	All 5-12y				5-8y				9-12y			
	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median
<b>Location</b>												
Rural	109	34.8	13.4	32.0	52	25.5	6.4	24.7	57	43.2	12.6	39.6
Small town	64	33.1	13.0	29.9	32	25.4	5.5	24.0	32	40.8	13.8	35.6
Large town	33	33.6	10.6	33.3	18	27.7	7.6	24.9	15	40.6	9.4	39.5
City	95	32.9	11.6	30.9	49	25.8	5.3	24.9	46	40.5	11.8	36.8
<b>Education level</b>												
Primary/Intermediate	49	35.4	13.3	32.9	20	27.7	8.6	23.8	29	40.7	13.5	37.7
Secondary	116	33.0	12.9	29.4	61	24.5	5.4	23.3	55	42.4	12.4	38.5
Degree/Diploma	132	33.5	11.6	30.7	69	26.5	5.4	25.6	63	41.1	11.8	37.3
<b>Social Class</b>												
Professional, Managerial, technical	163	34.2	12.2	31.3	80	26.1	5.7	25.2	83	42.0	11.6	39.5
Non-manual	58	34.2	12.3	32.0	27	25.6	6.0	24.0	31	41.8	11.5	38.5
Skilled-manual	42	31.9	13.0	29.1	22	24.6	5.7	23.5	20	39.9	14.1	35.5
Semi-skilled, unskilled	36	32.8	13.9	27.2	21	26.5	7.5	24.0	15	41.7	16.1	37.6
<b>Socio-economic group</b>												
Employer, manager, higher professional	115	33.9	11.7	31.3	56	25.8	5.3	24.9	59	41.5	11.1	39.5
Lower professional, non-manual	117	34.2	12.6	31.9	54	25.9	6.4	24.3	63	41.4	12.1	37.6
Manual-skilled, semi-skilled, farmers	43	33.7	14.5	30.9	22	25.4	5.8	24.0	21	42.5	15.8	36.8
Unskilled, unknown	24	30.4	12.1	28.7	18	26.2	7.3	27.2	6	42.9	15.7	40.1

**Table 5.6** Mean, SD and median values of height (m) for all 5-12 year old Irish children by demographic and lifestyle factors and by age group

	All 5-12y				5-8y				9-12y			
	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median
<b>Location</b>												
Rural	244	1.35	0.15	1.35	118	1.23	0.10	1.21	126	1.46	0.10	1.45
Small town	88	1.33	0.15	1.34	43	1.22	0.10	1.21	45	1.44	0.10	1.44
Large town	93	1.33	0.14	1.33	49	1.22	0.08	1.22	44	1.45	0.08	1.44
City	171	1.33	0.14	1.33	87	1.22	0.08	1.23	84	1.44	0.10	1.42
<b>Education level</b>												
Primary/Intermediate	111	1.36	0.13	1.37	46	1.25	0.08	1.25	65	1.44	0.09	1.44
Secondary	229	1.32	0.15	1.32	122	1.21	0.09	1.21	107	1.45	0.10	1.45
Degree/Diploma	251	1.34	0.14	1.34	127	1.23	0.09	1.22	124	1.45	0.10	1.43
<b>Social Class</b>												
Professional, Managerial, technical	307	1.34	0.15	1.34	148	1.23	0.09	1.22	159	1.45	0.10	1.44
Non-manual	118	1.35	0.15	1.36	53	1.22	0.10	1.21	65	1.45	0.09	1.45
Skilled-manual	93	1.31	0.14	1.29	52	1.21	0.07	1.21	41	1.43	0.11	1.42
Semi-skilled, unskilled	75	1.32	0.14	1.32	42	1.22	0.09	1.24	33	1.45	0.09	1.44
<b>Socio-economic group</b>												
Employer, manager, higher professional	217	1.33	0.14	1.34	108	1.22	0.08	1.21	109	1.45	0.09	1.43
Lower professional, non-manual	226	1.35	0.15	1.35	102	1.22	0.09	1.21	124	1.45	0.10	1.45
Manual-skilled, semi-skilled, farmers	105	1.33	0.14	1.33	56	1.23	0.10	1.24	49	1.44	0.10	1.45
Unskilled, unknown	46	1.31	0.14	1.32	30	1.24	0.09	1.25	16	1.45	0.10	1.42

**Table 5.7** Mean, SD and median values of height (m) for all 5-12 year old Irish boys by demographic and lifestyle factors and by age group

	All 5-12y				5-8y				9-12y			
	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median
<b>Location</b>												
Rural	135	1.35	0.14	1.34	66	1.24	0.10	1.24	69	1.45	0.10	1.45
Small town	24	1.36	0.15	1.39	11	1.23	0.11	1.24	13	1.46	0.07	1.45
Large town	60	1.33	0.15	1.33	31	1.21	0.08	1.22	29	1.45	0.08	1.43
City	76	1.33	0.13	1.33	38	1.23	0.08	1.22	38	1.43	0.10	1.42
<b>Education level</b>												
Primary/Intermediate	62	1.37	0.12	1.40	26	1.26	0.09	1.26	36	1.45	0.08	1.44
Secondary	113	1.32	0.14	1.31	61	1.22	0.10	1.23	52	1.44	0.09	1.44
Degree/Diploma	119	1.34	0.15	1.34	58	1.22	0.09	1.20	61	1.45	0.10	1.43
<b>Social Class</b>												
Professional, Managerial, technical	144	1.34	0.14	1.35	68	1.23	0.09	1.21	76	1.44	0.09	1.43
Non-manual	60	1.36	0.15	1.37	26	1.24	0.11	1.23	34	1.45	0.09	1.45
Skilled-manual	51	1.31	0.14	1.28	30	1.21	0.07	1.22	21	1.44	0.10	1.45
Semi-skilled, unskilled	39	1.33	0.14	1.34	21	1.23	0.10	1.25	18	1.45	0.09	1.43
<b>Socio-economic group</b>												
Employer, manager, higher professional	102	1.33	0.14	1.31	52	1.21	0.08	1.21	50	1.44	0.10	1.43
Lower professional, non-manual	109	1.35	0.14	1.37	48	1.23	0.10	1.21	61	1.45	0.09	1.44
Manual-skilled, semi-skilled, farmers	62	1.34	0.14	1.33	34	1.25	0.10	1.25	28	1.45	0.10	1.45
Unskilled, unknown	22	1.33	0.13	1.35	12	1.24	0.08	1.25	10	1.44	0.06	1.42

**Table 5.8** Mean, SD and median values of height (m) for all 5-12 year old Irish girls by demographic and lifestyle factors and by age group

	All 5-12y				5-8y				9-12y			
	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median
<b>Location</b>												
Rural	109	1.34	0.16	1.35	52	1.21	0.09	1.20	57	1.46	0.10	1.45
Small town	64	1.32	0.15	1.32	32	1.21	0.09	1.21	32	1.43	0.10	1.42
Large town	33	1.33	0.13	1.33	18	1.24	0.09	1.23	15	1.44	0.08	1.45
City	95	1.33	0.15	1.33	49	1.22	0.09	1.24	46	1.45	0.11	1.43
<b>Education level</b>												
Primary/Intermediate	49	1.35	0.14	1.35	20	1.23	0.08	1.21	29	1.43	0.11	1.41
Secondary	116	1.32	0.16	1.32	61	1.20	0.09	1.20	55	1.46	0.10	1.45
Degree/Diploma	132	1.34	0.14	1.34	69	1.23	0.09	1.24	63	1.45	0.10	1.44
<b>Social Class</b>												
Professional, Managerial, technical	163	1.34	0.15	1.34	80	1.23	0.10	1.23	83	1.46	0.10	1.45
Non-manual	58	1.34	0.15	1.35	27	1.21	0.08	1.21	31	1.45	0.10	1.45
Skilled-manual	42	1.30	0.14	1.31	22	1.20	0.08	1.19	20	1.42	0.11	1.38
Semi-skilled, unskilled	36	1.31	0.15	1.30	21	1.22	0.09	1.21	15	1.45	0.11	1.45
<b>Socio-economic group</b>												
Employer, manager, higher professional	115	1.34	0.15	1.34	56	1.22	0.09	1.22	59	1.45	0.09	1.44
Lower professional, non-manual	117	1.34	0.16	1.34	54	1.21	0.08	1.21	63	1.46	0.11	1.45
Manual-skilled, semi-skilled, farmers	43	1.32	0.15	1.32	22	1.21	0.10	1.21	21	1.43	0.11	1.44
Unskilled, unknown	24	1.29	0.15	1.28	18	1.24	0.09	1.25	6	1.47	0.15	1.38

**Table 5.9** Mean, SD and median values of BMI (kg/m<sup>2</sup>) for all 5-12 year old Irish children by demographic and lifestyle factors and by age group

	All 5-12y				5-8y				9-12y			
	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median
<b>Location</b>												
Rural	244	18.0	3.0	17.3	118	16.9	2.2	16.5	126	19.0	3.3	18.4
Small town	88	18.4	3.5	17.4	43	17.1	1.9	16.5	45	19.6	4.2	18.5
Large town	93	17.9	2.7	17.2	49	17.1	2.4	16.5	44	18.8	2.7	18.6
City	171	17.8	3.0	17.2	87	17.0	2.1	16.6	84	18.8	3.4	17.8
<b>Education level</b>												
Primary/Intermediate	111	18.5	3.3	17.7	46	17.5	3.0	16.5	65	19.1	3.4	18.7
Secondary	229	17.9	3.0	17.2	122	16.9	2.1	16.6	107	19.1	3.5	18.2
Degree/Diploma	251	17.8	2.8	17.2	127	16.8	1.9	16.5	124	18.8	3.3	17.9
<b>Social Class</b>												
Professional, Managerial, technical	307	17.9	2.9	17.3	148	16.7	1.9	16.5	159	19.0	3.3	18.3
Non-manual	118	18.1	3.0	17.4	53	17.1	2.2	16.8	65	18.9	3.3	18.2
Skilled-manual	93	18.3	3.4	17.2	52	17.2	2.4	16.6	41	19.8	3.9	18.9
Semi-skilled, unskilled	75	17.7	3.1	16.9	42	17.5	2.7	16.5	33	18.1	3.6	17.4
<b>Socio-economic group</b>												
Employer, manager, higher professional	217	17.9	3.0	17.3	108	16.7	1.8	16.6	109	19.0	3.4	17.8
Lower professional, non-manual	226	18.0	2.9	17.4	102	17.0	2.2	16.5	124	18.9	3.1	18.6
Manual-skilled, semi-skilled, farmers	105	18.4	3.6	17.3	56	17.3	2.5	16.5	49	19.6	4.2	18.1
Unskilled, unknown	46	17.5	2.7	16.8	30	17.1	2.5	16.4	16	18.2	3.0	17.8

**Table 5.10** Mean, SD and median values of BMI (kg/m<sup>2</sup>) for all 5-12 year old Irish boys by demographic and lifestyle factors and by age group

	All 5-12y				5-8y				9-12y			
	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median
<b>Location</b>												
Rural	135	17.5	2.4	17.1	66	16.7	2.0	16.2	69	18.3	2.5	17.8
Small town	24	18.4	3.0	17.6	11	16.8	2.0	16.1	13	19.7	3.1	18.5
Large town	60	17.6	2.3	17.1	31	16.7	1.9	16.3	29	18.5	2.4	18.5
City	76	17.6	2.9	16.9	38	16.7	2.1	16.1	38	18.4	3.4	17.8
<b>Education level</b>												
Primary/Intermediate	62	18.2	2.7	17.6	26	17.2	2.3	16.6	36	18.9	2.8	18.7
Secondary	113	17.7	2.6	17.0	61	17.0	2.0	16.3	52	18.5	3.0	17.8
Degree/Diploma	119	17.3	2.4	17.0	58	16.3	1.7	16.0	61	18.2	2.6	17.7
<b>Social Class</b>												
Professional, Managerial, technical	144	17.4	2.5	17.0	68	16.3	1.7	16.0	76	18.4	2.7	17.8
Non-manual	60	17.6	2.1	17.3	26	16.8	1.4	16.7	34	18.3	2.3	17.8
Skilled-manual	51	18.5	3.3	17.3	30	17.4	2.5	16.5	21	20.1	3.6	19.3
Semi-skilled, unskilled	39	17.2	2.0	16.8	21	17.3	2.3	16.5	18	17.2	1.7	16.9
<b>Socio-economic group</b>												
Employer, manager, higher professional	102	17.3	2.6	16.8	52	16.2	1.5	16.0	50	18.4	3.0	17.7
Lower professional, non-manual	109	17.6	2.2	17.3	48	16.5	1.4	16.3	61	18.5	2.4	18.2
Manual-skilled, semi-skilled, farmers	62	18.3	3.1	17.3	34	17.5	2.7	16.6	28	19.1	3.3	18.0
Unskilled, unknown	22	17.5	2.1	16.8	12	17.5	2.5	16.6	10	17.4	1.8	16.9

**Table 5.11** Mean, SD and median values of BMI (kg/m<sup>2</sup>) for all 5-12 year old Irish girls by demographic and lifestyle factors and by age group

	All 5-12y				5-8y				9-12y			
	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median
<b>Location</b>												
Rural	109	18.6	3.6	17.8	52	17.1	2.5	16.6	57	19.9	4.0	19.2
Small town	64	18.4	3.7	17.2	32	17.2	1.9	16.8	32	19.6	4.6	18.5
Large town	33	18.5	3.2	18.1	18	17.8	3.0	17.3	15	19.3	3.2	18.8
City	95	18.1	3.0	17.3	49	17.1	2.1	17.0	46	19.0	3.5	18.1
<b>Education level</b>												
Primary/Intermediate	49	18.8	3.9	17.8	20	18.0	3.7	16.3	29	19.4	4.0	18.8
Secondary	116	18.2	3.4	17.5	61	16.9	2.1	16.9	55	19.6	3.9	18.8
Degree/Diploma	132	18.2	3.1	17.6	69	17.3	1.9	16.9	63	19.3	3.7	18.7
<b>Social Class</b>												
Professional, Managerial, technical	163	18.4	3.2	17.6	80	17.2	2.0	16.8	83	19.5	3.6	18.8
Non-manual	58	18.5	3.6	17.7	27	17.3	2.8	17.0	31	19.6	4.0	18.9
Skilled-manual	42	18.1	3.6	17.1	22	16.9	2.2	16.8	20	19.4	4.3	18.3
Semi-skilled, unskilled	36	18.3	3.9	17.5	21	17.7	3.0	16.6	15	19.2	4.9	18.9
<b>Socio-economic group</b>												
Employer, manager, higher professional	115	18.4	3.2	17.7	56	17.2	1.9	17.3	59	19.5	3.7	18.6
Lower professional, non-manual	117	18.4	3.3	17.6	54	17.4	2.7	16.6	63	19.2	3.6	18.8
Manual-skilled, semi-skilled, farmers	43	18.6	4.2	17.1	22	17.0	2.2	16.4	21	20.3	5.1	18.9
Unskilled, unknown	24	17.5	3.2	16.8	18	16.9	2.6	16.3	6	19.4	4.2	19.1

**Table 5.12** Mean, SD and median values of waist circumference (cm) for all 5-12 year old Irish children by demographic and lifestyle factors and by age group

	All 5-12y				5-8y				9-12y			
	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median
<b>Location</b>												
Rural	240	63.0	9.3	61.8	116	58.2	6.6	57.3	124	67.4	9.3	65.5
Small town	88	62.6	10.1	60.1	43	57.7	5.4	56.8	45	67.2	11.3	64.3
Large town	91	61.9	8.3	59.7	48	58.0	6.0	56.1	43	66.4	8.3	64.1
City	168	61.8	8.4	59.7	86	58.0	5.6	57.3	82	65.8	8.9	63.6
<b>Education level</b>												
Primary/Intermediate	107	64.3	9.4	63.3	45	59.7	7.7	57.2	62	67.6	9.1	66.0
Secondary	226	62.1	9.7	60.0	120	57.3	5.8	56.4	106	67.6	10.3	65.2
Degree/Diploma	249	61.7	8.0	60.5	126	58.1	5.5	57.2	123	65.4	8.5	63.3
<b>Social Class</b>												
Professional, Managerial, technical	303	62.1	8.6	60.3	147	57.6	5.4	57.1	156	66.3	8.9	63.9
Non-manual	116	63.6	9.2	62.3	52	58.3	6.1	57.7	64	67.9	9.2	66.3
Skilled-manual	92	63.0	10.4	60.6	51	58.4	6.7	57.5	41	68.8	11.2	67.2
Semi-skilled, unskilled	73	61.2	8.6	59.0	41	58.8	7.4	56.7	32	64.2	9.2	63.2
<b>Socio-economic group</b>												
Employer, manager, higher professional	216	61.5	8.3	59.6	108	56.9	4.3	56.8	108	66.2	8.8	63.9
Lower professional, non-manual	223	62.9	9.0	61.2	101	58.1	6.2	56.8	122	66.8	9.1	65.1
Manual-skilled, semi-skilled, farmers	102	63.5	10.5	60.9	55	59.3	7.4	57.6	47	68.5	11.4	65.4
Unskilled, unknown	44	62.0	8.8	60.9	28	59.8	7.5	58.4	16	65.7	9.9	63.5

**Table 5.13** Mean, SD and median values of waist circumference (cm) for all 5-12 year old Irish boys by demographic and lifestyle factors and by age group

	All 5-12y				5-8y				9-12y			
	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median
<b>Location</b>												
Rural	133	62.3	7.9	61.5	66	58.4	6.3	57.5	67	66.0	7.6	65.2
Small town	24	62.7	9.0	61.3	11	56.6	5.6	55.0	13	67.8	8.2	66.2
Large town	59	61.8	8.4	59.6	30	57.1	5.2	55.7	29	66.7	8.4	65.1
City	75	62.0	8.3	59.4	38	58.5	5.6	57.2	37	65.7	9.1	63.6
<b>Education level</b>												
Primary/Intermediate	60	64.2	8.0	63.0	26	59.8	6.1	58.3	34	67.6	7.8	66.7
Secondary	111	62.3	8.9	60.1	60	58.2	6.2	57.2	51	67.1	9.3	65.4
Degree/Diploma	119	61.0	7.4	60.0	58	57.1	5.2	56.7	61	64.7	7.2	62.8
<b>Social Class</b>												
Professional, Managerial, technical	143	61.6	8.1	59.9	68	57.2	5.4	56.4	75	65.5	8.1	63.6
Non-manual	59	63.1	7.4	62.9	26	57.9	4.9	57.6	33	67.3	6.3	66.2
Skilled-manual	51	63.9	10.1	60.8	30	59.4	6.3	58.9	21	70.3	11.2	67.5
Semi-skilled, unskilled	37	60.5	6.4	59.2	20	59.0	7.4	56.9	17	62.3	4.5	63.0
<b>Socio-economic group</b>												
Employer, manager, higher professional	102	60.9	8.1	58.8	52	56.3	3.7	56.0	50	65.6	8.7	63.8
Lower professional, non-manual	108	62.5	7.6	61.4	48	57.5	4.9	57.0	60	66.5	6.9	65.9
Manual-skilled, semi-skilled, farmers	59	63.7	9.8	62.2	33	60.3	7.9	58.5	26	68.0	10.3	65.1
Unskilled, unknown	22	62.1	5.8	61.9	12	61.8	6.8	60.9	10	62.5	4.7	62.3

**Table 5.14** Mean, SD and median values of waist circumference (cm) for all 5-12 year old Irish girls by demographic and lifestyle factors and by age group

	All 5-12y				5-8y				9-12y			
	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median
<b>Location</b>												
Rural	107	63.8	10.8	62.6	50	57.9	7.0	56.7	57	69.1	10.8	66.5
Small town	64	62.6	10.5	59.5	32	58.1	5.4	58.0	32	67.0	12.4	63.9
Large town	32	62.1	8.2	61.6	18	59.4	7.1	56.9	14	65.6	8.3	63.1
City	93	61.6	8.5	60.0	48	57.7	5.7	57.3	45	65.9	8.9	63.6
<b>Education level</b>												
Primary/Intermediate	47	64.5	11.0	63.6	19	59.7	9.7	53.9	28	67.8	10.7	65.3
Secondary	115	62.0	10.4	59.6	60	56.5	5.3	54.9	55	68.0	11.2	65.1
Degree/Diploma	130	62.4	8.6	60.8	68	59.0	5.6	58.6	62	66.1	9.7	63.6
<b>Social Class</b>												
Professional, Managerial, technical	160	62.6	9.0	60.5	79	57.9	5.3	57.5	81	67.1	9.6	64.1
Non-manual	57	64.0	10.9	61.2	26	58.8	7.2	57.9	31	68.4	11.6	66.5
Skilled-manual	41	62.0	10.7	60.4	21	56.9	7.1	53.5	20	67.3	11.3	64.7
Semi-skilled, unskilled	36	61.8	10.5	57.9	21	58.5	7.6	54.8	15	66.4	12.5	65.2
<b>Socio-economic group</b>												
Employer, manager, higher professional	114	62.1	8.5	60.4	56	57.4	4.7	57.5	58	66.6	8.9	64.1
Lower professional, non-manual	115	63.2	10.2	61.0	53	58.6	7.1	56.7	62	67.1	10.8	64.4
Manual-skilled, semi-skilled, farmers	43	63.3	11.5	60.0	22	57.8	6.5	55.9	21	69.1	12.8	65.5
Unskilled, unknown	22	61.8	11.2	58.0	16	58.4	7.9	56.6	6	70.9	14.2	72.4

**Table 5.15** Mean, SD and median values of hip circumference (cm) for all 5-12 year old Irish children by demographic and lifestyle factors and by age group

	All 5-12y				5-8y				9-12y			
	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median
<b>Location</b>												
Rural	241	74.2	10.1	73.3	116	67.7	7.1	66.5	125	80.3	8.6	80.1
Small town	88	74.8	10.9	72.8	43	67.8	6.1	67.1	45	81.4	10.2	78.6
Large town	91	73.5	9.7	72.8	48	67.5	6.7	65.3	43	80.2	7.9	79.9
City	168	73.7	9.9	72.3	86	67.8	6.0	66.3	82	79.9	9.4	78.3
<b>Education level</b>												
Primary/Intermediate	108	76.2	10.1	75.8	45	70.0	8.0	68.6	63	80.6	9.2	80.2
Secondary	226	73.2	10.1	72.0	120	67.0	6.3	65.8	106	80.3	8.9	78.2
Degree/Diploma	249	73.7	9.9	72.2	126	67.5	6.1	66.2	123	80.1	9.0	79.1
<b>Social Class</b>												
Professional, Managerial, technical	303	74.3	10.0	73.4	147	67.3	6.0	66.0	156	80.8	8.6	79.9
Non-manual	116	74.4	9.9	75.0	52	67.9	6.9	67.1	64	79.6	8.9	78.7
Skilled-manual	92	73.9	10.8	72.0	51	67.9	7.2	67.0	41	81.3	9.9	80.0
Semi-skilled, unskilled	74	72.9	9.8	71.7	41	68.3	7.4	66.2	33	78.6	9.7	77.9
<b>Socio-economic group</b>												
Employer, manager, higher professional	216	73.9	10.0	72.5	108	67.0	5.4	66.0	108	80.7	8.8	79.8
Lower professional, non-manual	223	74.2	10.1	73.3	101	67.2	6.5	66.1	122	80.0	8.8	78.9
Manual-skilled, semi-skilled, farmers	103	74.8	10.7	73.1	55	69.3	7.7	67.0	48	81.0	10.1	79.0
Unskilled, unknown	44	72.3	9.3	72.0	28	68.7	7.9	68.5	16	78.7	8.2	79.1

**Table 5.16** Mean, SD and median values of hip circumference (cm) for all 5-12 year old Irish boys by demographic and lifestyle factors and by age group

	All 5-12y				5-8y				9-12y			
	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median
<b>Location</b>												
Rural	134	72.9	8.9	72.1	66	67.4	6.7	66.3	68	78.3	7.4	79.2
Small town	24	75.9	10.2	76.8	11	68.2	6.2	68.9	13	82.4	8.2	79.1
Large town	59	72.8	9.5	72.2	30	66.4	6.1	65.0	29	79.4	7.8	78.6
City	75	72.4	9.4	70.8	38	67.0	5.9	66.1	37	78.0	9.1	77.2
<b>Education level</b>												
Primary/Intermediate	61	75.4	9.2	75.0	26	69.4	7.1	69.2	35	79.9	8.1	80.2
Secondary	111	72.6	9.1	72.0	60	67.5	6.5	65.9	51	78.5	8.2	77.2
Degree/Diploma	119	72.2	9.3	70.7	58	65.7	5.4	65.0	61	78.4	7.9	78.6
<b>Social Class</b>												
Professional, Managerial, technical	143	72.9	9.4	71.2	68	66.2	5.6	65.2	75	79.0	7.9	79.0
Non-manual	59	73.4	9.2	73.3	26	67.6	6.7	66.8	33	78.0	8.3	77.3
Skilled-manual	51	73.7	10.2	71.5	30	68.0	6.5	66.9	21	81.8	9.0	80.2
Semi-skilled, unskilled	38	71.9	7.7	71.7	20	68.4	7.7	67.7	18	75.7	5.8	75.2
<b>Socio-economic group</b>												
Employer, manager, higher professional	102	72.3	9.3	70.6	52	65.8	4.6	65.2	50	79.0	8.2	78.8
Lower professional, non-manual	108	73.2	9.4	72.1	48	66.4	5.8	65.0	60	78.7	8.1	78.8
Manual-skilled, semi-skilled, farmers	60	74.2	9.5	73.1	33	69.7	7.9	67.5	27	79.6	8.6	78.7
Unskilled, unknown	22	72.4	7.5	71.7	12	69.3	7.9	68.0	10	76.2	5.0	76.1

**Table 5.17** Mean, SD and median values of hip circumference (cm) for all 5-12 year old Irish girls by demographic and lifestyle factors and by age group

	All 5-12y				5-8y				9-12y			
	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median	<i>n</i>	Mean	SD	Median
<b>Location</b>												
Rural	107	75.8	11.3	74.9	50	68.0	7.6	66.5	57	82.7	9.5	81.4
Small town	64	74.3	11.2	72.3	32	67.6	6.2	67.0	32	81.0	11.0	77.9
Large town	32	74.8	10.0	74.1	18	69.3	7.4	67.9	14	81.9	8.3	80.5
City	93	74.8	10.2	73.9	48	68.4	6.1	66.9	45	81.5	9.4	78.6
<b>Education level</b>												
Primary/Intermediate	47	77.2	11.2	76.1	19	70.9	9.3	66.2	28	81.5	10.5	80.3
Secondary	115	73.9	10.9	72.3	60	66.5	6.0	65.7	55	82.0	9.2	79.5
Degree/Diploma	130	75.1	10.3	74.0	68	69.0	6.3	67.3	62	81.8	9.7	80.2
<b>Social Class</b>												
Professional, Managerial, technical	160	75.4	10.5	74.3	79	68.3	6.2	66.5	81	82.4	9.0	80.7
Non-manual	57	75.3	10.6	75.4	26	68.2	7.2	67.2	31	81.3	9.3	79.5
Skilled-manual	41	74.2	11.7	72.0	21	67.8	8.4	67.0	20	80.9	11.0	77.5
Semi-skilled, unskilled	36	74.0	11.7	70.6	21	68.2	7.2	65.3	15	82.0	12.2	80.8
<b>Socio-economic group</b>												
Employer, manager, higher professional	114	75.3	10.3	74.3	56	68.2	5.8	66.7	58	82.1	9.1	80.8
Lower professional, non-manual	115	75.2	10.7	74.2	53	68.0	7.1	66.1	62	81.3	9.4	79.7
Manual-skilled, semi-skilled, farmers	43	75.6	12.2	73.1	22	68.7	7.7	66.4	21	82.9	11.8	80.8
Unskilled, unknown	22	72.3	11.0	72.3	16	68.3	8.2	70.1	6	82.8	11.2	81.1

**Table 5.18** Percentage of all 5-12 year old Irish children defined as normal, overweight and obese by age group using the UK 90 cut-offs

Age group	<i>n</i>	UK1990 cut-offs*		
		Normal	Overweight	Obese
5-12y	596	77.9	11.1	11.1
5-8y	297	79.1	10.4	10.4
9-12y	299	76.6	11.7	11.7

\*BMI reference curves for the UK 1990 (Cole et al, 1995)

**Table 5.19** Percentage of all 5-12 year old Irish children defined as normal, overweight and obese by age group using the IOTF cut-offs

Age group	<i>n</i>	IOTF cut-offs*		
		Normal	Overweight	Obese
5-12y	596	75.8	17.4	6.7
5-8y	297	75.1	18.2	6.7
9-12y	299	76.6	16.7	6.7

\*International Obesity Task Force age and sex specific BMI cut-offs (Cole et al, 2000)