



ΧΑΡΟΚΟΠΕΙΟ ΠΑΝΕΠΙΣΤΗΜΙΟ

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(AM: 4421321)

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1. Abstract

Objective: To investigate parental and children's perceptions of children's weight status, compared to children's actual weight and to explore further the associations with socio-demographic factors and family characteristics.

Methodology: The current cross-sectional, school-based study was conducted between March and July 2010, in schools in eight European countries, and included 6113 children between 10-12 years old. The survey included anthropometric measurements, questionnaires for children and questionnaires for parents. The anthropometric measurements for children were performed by trained researchers, whereas, parents' anthropometric and demographic characteristics were self-reported. Multilevel logistics regressions analyses were conducted.

Results: The prevalence of childhood obesity in the whole sample was 22.9% and 37.4% for parents obesity, with the highest rates observed in Eastern and Southern Europe. The childhood obesity rate was higher in children from overweight/obese and low educational status parents, which confirmed was by logistic regression analyses. In the total sample, 42.9% of overweight/obese children and 27.6% of parents of overweight/obese children underestimated their and their children's weight status, respectively. A higher likelihood for this underestimation of weight status by children and their parents was observed in Eastern and Southern compared with Central/Northern countries. Also, overweight or obese parents (OR=1.81; 95% CI 1.39, 2.35 and OR=1.78, 95% CI 1.22, 2.60), parents of boys (OR=1.32; 95% CI 1.05, 1.67) and overweight/obese children (OR=1.60; 95% CI 1.29, 1.98 and OR=1.76; 95% CI 1.29, 2.41 respectively) or unemployed parents (OR=1.53; 95% CI 1.22, 1.92) were more likely to underestimate children's weight status.

Conclusions: High rates of obesity were observed particularly in eastern and southern European countries and in families of overweight/obese parents. Furthermore, a high percentage of parents and children were found to underestimate children's actual weight. Future intervention focusing on the prevention of obesity, initiatives should take into account, sociodemographic and family characteristics, in design and implementation.

1.1 Key words

Perceptions of weight status

Childhood obesity

Weight status underestimation

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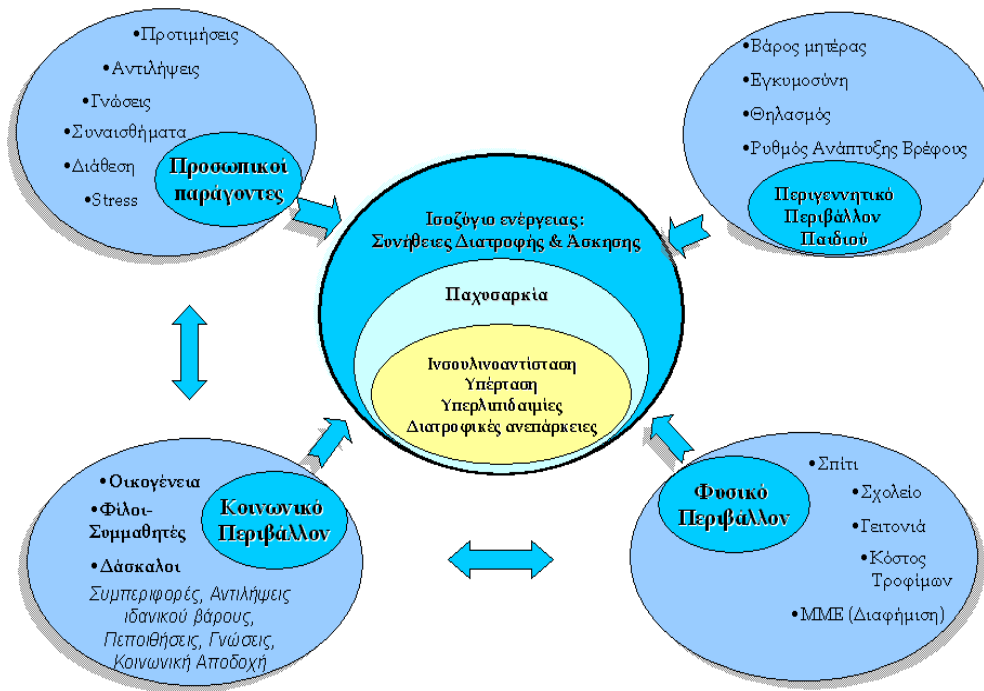
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4. $\nabla \cdot \mathbf{F} = 0$ $\Rightarrow$ $\mathbf{F} = \nabla \phi$

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	– ½ F!!! N=7915	Í !!!!!“úŮ N=1100	Ÿ ”!!..Æ N=1008	Ÿ €...JĚřŮ N=1022	Ÿ !!!!!Ů úřŮ N=959	ŵFF••’ ..řŮ N=1006	– !!!• Ů řŮ N=1187	ŵ!•Ů řŮ N=1025	Í !!• Ů řŮ N=608	p-value
Ů ¼Æ Ů.eFŮ	3716 (48,1%)	485 (45,2%)	481 (48,6%)	461 (45,1%)	460 (51,1%)	473 (48,5%)	560 (48,7%)	482 (47,8%)	314 (51,6%)	0,051*
› FFřřŮŮ	4009 (51,9%)	588 (54,8%)	509 (51,4%)	561 (54,9%)	440 (48,9%)	502 (51,5%)	589 (51,3%)	526 (52,2%)	294 (48,4%)	
Ŵ!•• řŮ	11,6 (±0,7)	11,4 (±0,6)	11,4 (±0,7)	12,2 (±0,6)	11,6 (±0,7)	12 (±0,7)	11,3 (±0,6)	11,5 (±0,6)	11,5 (±0,8)	< 0,001 ^Δ

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*U p-value "U ♠FF> 1d U Ůe U úŰŰúŰ e> £<Ű,£<F x2 Pearson

À p-value < 0.05 by ANOVA.

$$-F \frac{\partial \bar{u}}{\partial x} + \frac{\partial}{\partial x} \left(F \frac{\partial \bar{u}}{\partial x} \right) = \bar{u} - \bar{u}' - \bar{u} \bar{u}' \quad \text{e} \quad \bar{u} \bar{u}' \leq \bar{u} \bar{u}' \quad \bar{u} \bar{u}' \leq 0,05.$$
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- ꞑꞐ Ꞓꞓꞔ: - ꝀꝁꝂꝃ ꝄꝅꝆꝇ ꝈꝉꝊꝋ ꝌꝍꝎꝏ / ꝐꝑꝒꝓꝔꝕꝖ ꝗꝘ ꝙꝚꝛꝜꝝ Ꝟꝟ ꝠꝡꝢꝣ Ꝥꝥ ꝦꝧꝨꝩ.

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û 1/2F	Ŧ.ŒŦŦ	24,9%	43,8%	17,3%	27,4%	17,2%	15,4%	31,5%	26%	15,7%	<0,001
	Ÿ FFŦŦŦŦŦ	21,0%	37,5 %	13,4%	22,9%	15%	13,5%	22,5%	23,6%	11,9%	<0,001
	p-value	<0,001	0,039	0,093	0,096	0,364	0,402	0,001	0,385	0,181	
	– €/F!!Ŧ “	22,9%	40,8%	15,1%	24,9%	16,1%	14,4%	26,9%	24,8%	13,9%	<0,001

—F p-value χ^2 -test $\leq \alpha = 0,05$. —F Pearson. —F χ^2 -test $\leq \alpha = 0,05$.

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ñ !!!FũÜ£F†	25,9%	36,7%	16,1%	20,9%	23,7%	18,1%	27,4%	31,3%	15,4%	< 0,001
ŵÜ.ÜÜÜP	22,6%	43,7 %	15,2%	24,6%	9,7%	13,5%	25,9%	23,5%	12,3%	< 0,001
p-value	0,237	0,04	0,839	0,582	0,002	0,171	0,671	0,089	0,291	
Γ £.LũÜÜ „ > ÜÜ“ũÜÜü’										
—F£!!“%ũÜF/ ”/ÜP _{ts} E/”ÜP _{ts} “/Ü£.EP _{ts}	26,7%	45,1%	12,8%	23,9%	11,8%	25,4%	36,4%	25,9%	11,3%	< 0,001
ŴÜ F<ũ½F .E/ÜP _{ts} Ü£.L%Ü F<	21,9%	39,3%	15,1%	25,6%	9,7%	13,1%	24,5%	22,6%	13,7%	< 0,001
p-value	0,095	0,130	0,594	0,666	0,585	0,01	0,011	0,340	0,461	
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ŴÜ F<ũ½F .E/ÜP _{ts} 14 ”Ü	27,2%	41%	17,1%	26,6%	13,2%	15,3%	34%	25,4%	15,9%	< 0,001
i /ÜP _{ts} E/”ÜP Ö14 ”Ü	23,6%	40 %	17,8%	24,1%	15,8%	17,3%	25%	21,4%	10,4%	< 0,001
ŴÜ F<ũ½F .E/ÜP _{ts} Ö14 ”Ü	18,8%	42,6%	13,2%	23%	7,8%	12,4%	15,2 %	23,4%	9,3%	< 0,001
p-value	< 0,001	0,847	0,342	0,599	0,139	0,297	< 0,001	0,684	0,128	

—F p-value χ^2 test $\leq 0,05$ Pearson. —F χ^2 test $\leq 0,05$ Pearson. —F χ^2 test $\leq 0,05$ Pearson.

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wFF- F• ŮŮ	62,6%	53,7%	66,1%	60,9%	66,3%	62,2%	59%	68,1%	72,1%	<0,001
-♠”F• ŮF/ - ŮŮŮŮ F	37,4%	46,3%	33,9%	39,1%	33,7%	37,8%	41%	31,9%	27,9%	

—F p-value χ^2 test $\leq 0,05$ e χ^2 test Pearson. —F χ^2 test $\leq 0,05$ e χ^2 test Pearson.

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wFE F• ÜÜÜ .E/ÜÜts	17,4%	36%	10,8%	17,9%	8,8%	11,1%	19,8%	18,1%	9,3%	<0,001
—!•Ü•ÜÜ/ - Ü%üÜÜ F< .E/ÜÜts	32,8%%	48,3%	23%	35%	18,3%	18,6%	34,8%	35,9%	25,3%	<0,001
p-value	<0,001	<0,001	<0,001	<0,001	0,01	0,004	<0,001	<0,001	<0,001	

—F p-value χ^2 test $\leq 0,05$ e χ^2 Pearson. —F χ^2 test $\leq 0,05$ e χ^2 Pearson. —F χ^2 test $\leq 0,05$ e χ^2 Pearson.

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 CI 3,21- 5,39) uU u%>E u' -U U U/ U AFE %/ uUptsWUE> "Pts y eEUptsEEENAUU"Pts%EUpts
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 (OR=1,53, 95% CI 1,22-1,92). I AAEu"U, AUu< EA"E•UEN >U AUuEuUE>N .E/"N >U
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 (OR=0,80, 95% CI 0,71-0,91).

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