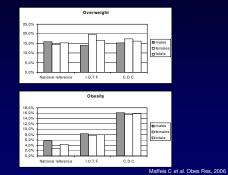
Obesità, Nutrizione e Stili di vita. Trento 31 Marzo 2007

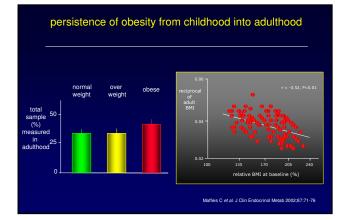
obesità nel bambino: epidemiologia e prevenzione

Claudio Maffeis Dipartimento Materno Infantile e Biologia-Genetica Sezione di Pediatria - Università di Verona

PREVALENCE OF OVERWEIGHT AND OBESITY IN 2-6-YEAR-OLD ITALIAN CHILDREN



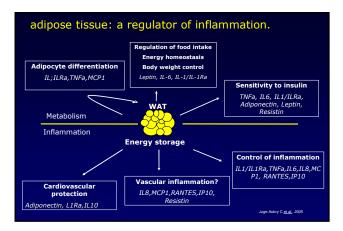


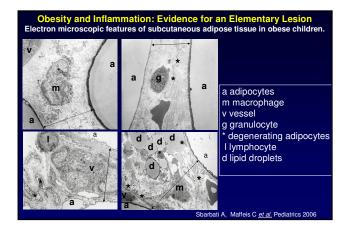




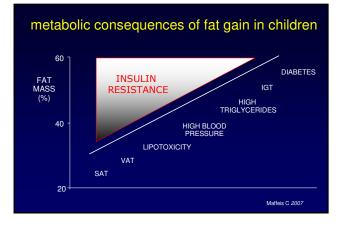
		obese adu	ilts
	non-obese adults*	non-obese In childhood °	obese In childhood
men	2	4	12
women	0	3	9
total	2		21
Odds ratio		16	56



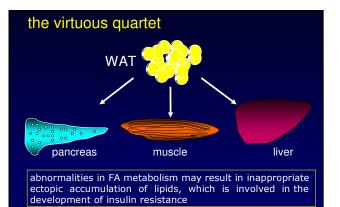




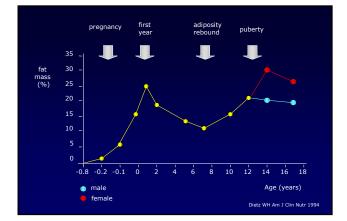




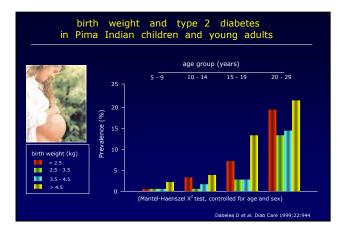




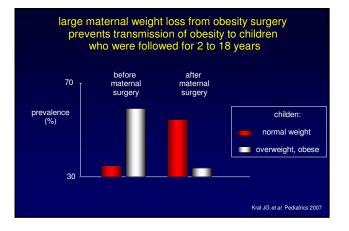








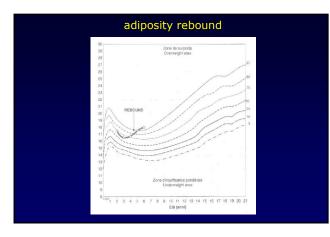






	Adjusted analysis		
bese in young adulthood:	OR	95% CI	Р
rapid weight gain category (0 to 4 months):	5.22	155, 17.6	0.008
sex (F)	6.57	1.83,23.5	0.004
pirth weight (kg)	17.6	2.22,140	0.007
gestational age (wk)	0.77	0.35,1.68	0.5
irstborn status	2.33	0.54,10.2	0.3
pirth year	3.43	1.01,11.7	0.049
maternal BMI (kg/m²)	1.2	1.04,1.39	0.013
maternal age (y)	0.93	0.83,1.03	0.16
maternal education (y)	0.97	0.69,1.37	0.9



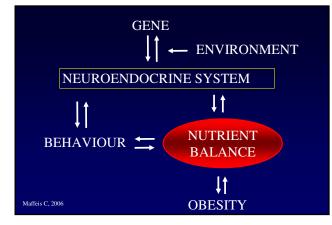




adequate sleep among adolescents in positively associated with health status and health-related behaviors

Independent variable: adequate sleep (higher vs lower)	OR (95% c.i.)
Dependent variable:	
Health responsability (higher vs lower)	1.6 (1.2-2.2)
Stress managment (higher vs lower)	7.6 (5.3-10.8)
Nutrition (higher vs lower)	3.0 (2.2-4.1)
Exercise (higher vs lower)	2.1 (1.6-3.0)
Body size (Non-overweight vs Overweight)	1.7 (1.3-2.4)
	Chen MY, et al. BMC Public Health 2006







long-term weight loss maintenance

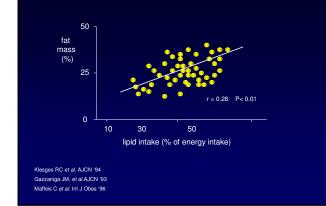
Definition: "individuals who have intentionally lost at least 10% of their body weight and kept it off at least one year".

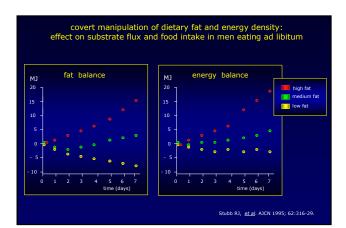
20% of overweight individuals are successful weight losers.

THE NATIONAL WEIGHT CONTROL REGISTRY

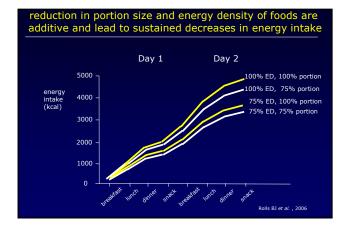
diet + physical activity: 89% diet: 10% physical activity: 1%

strategies very consistently reported: consuming a low-calorie (1800 kcal/day), low-fat (25%) diet doing high levels of physical activity (3000 kcal/week) weighing themself frequently consuming breakfast daily

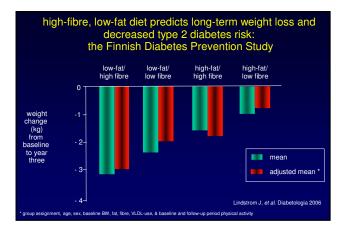




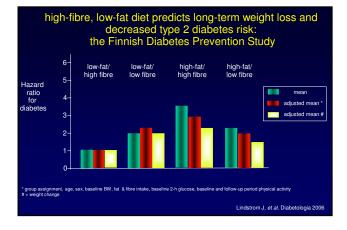




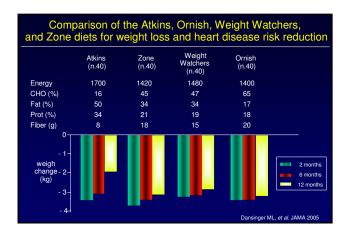




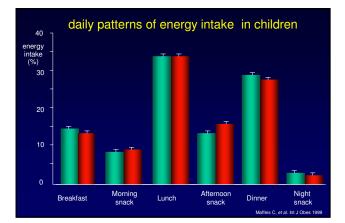




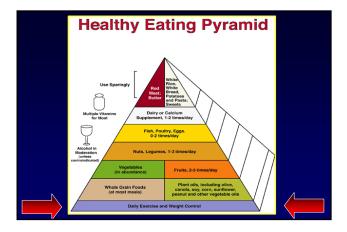




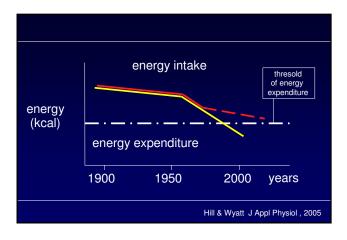




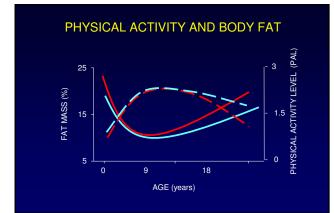




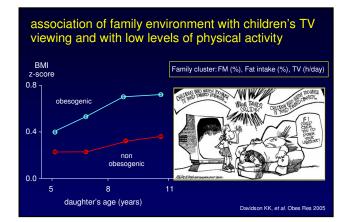




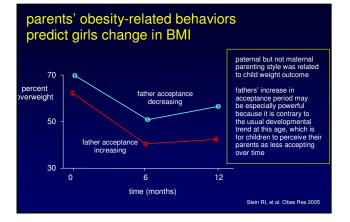




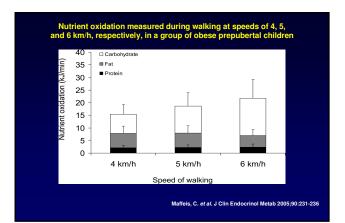




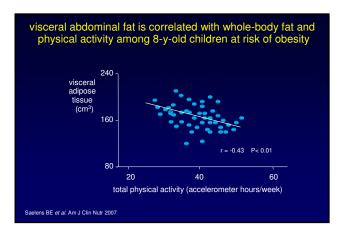




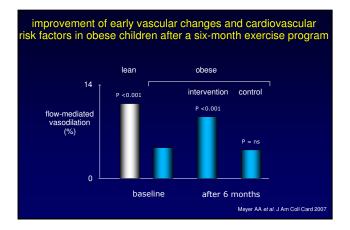




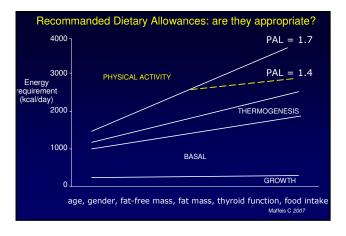














Recommanded Dietary Allowances: are they appropriate?

PAL = INDEX OF PHYSICAL ACTIVITY

= TOTAL ENERGY EXPENDITURE / BASAL ENERGY EXPENDITURE

= 1.7 SAFE LEVEL FOR WEIGHT MAINTENANCE IN ADULTS

- Case 1: 10-year-old boy, BW= 30 kg, BMR: 1200 kcal/day RDA: 2200 kcal/day. Estimated PAL: 2200/1200 = 1.8
- Case 2: 10-year-old boy, BW= 40 kg, BMR: 1400 kcal/day RDA: 2200 kcal/day. Estimated PAL: 2200/1400 = 1.6
- Case 3: 10-year-old boy, BW= 25 kg, BMR: 1000 kcal/day RDA: 2200 kcal/day. Estimated PAL: 2200/1000 = 2.2

However, the mean PAL in 10-year-old boys is 1.5. Therefore, in all the three cases the RDA overestimate requirements and expose to fat gain.

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TAKE HOME MESSAGE

Approaching prevention and treatment of obesity in the single individual do not use the RDA to estimate energy requirements but use the factorial method.

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