



Common childhood obesity

Characteristics and consequences

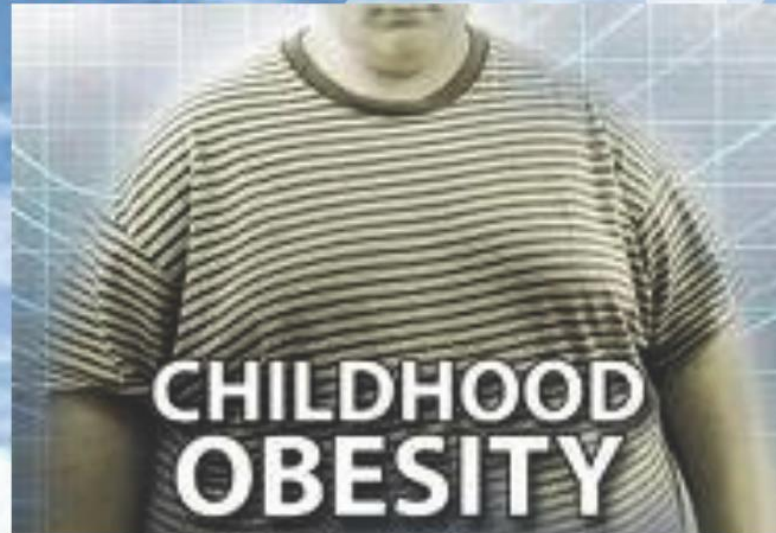
Zlatko Marinov

Children obesitological ambulance

Common obesity

Pandemic civilization disease

Chronic cardio-metabolic disease



Tip



The development of pandemic obesity

WORLD OBESITY Global Prevalence of Overweight in Boys 2000-2006

Výskyt nadváhy a obezity v letech 1951 až 2011 u sedmiletých dívek a chlapců

	1951	1981	1991	2001	2011
nadváha DÍVKY	8,9%	10,2%	15%	15,1%	16,7%
obezita DÍVKY	1,6%	3,5%	3%	5,2%	9,6%
nadváha CHLAPCI	12,1%	13,6%	17%	18,3%	19,8%
obezita CHLAPCI	1,8%	2,3%	4%	8,2%	11,4%

©2012 Caterpillar Research 2011



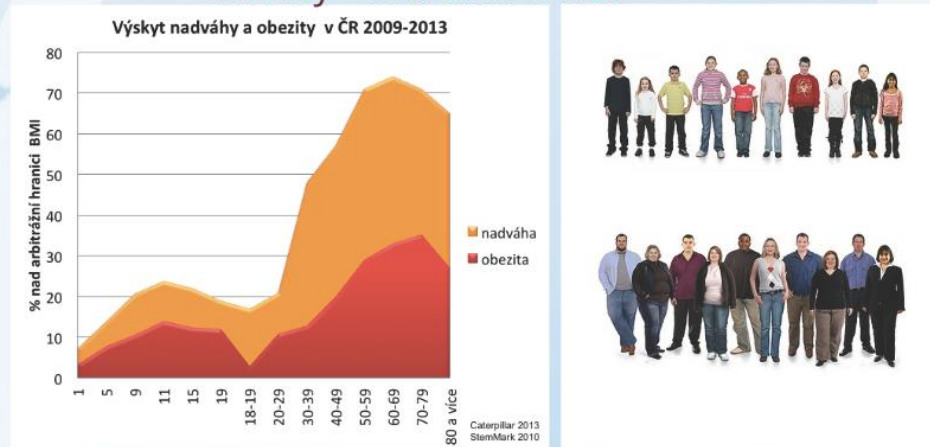
In Czech republic
154 000 children with obesity
85 000 children with metabolic changes
34 000 with morbid obesity

Výskyt závažné hmotnosti dětí v ČR 2009-2013

Věkové období	nadváha % dětí 6-16 letových BMI	obezita % dětí 6-16 letových BMI	podváha % dětí 6-16 letových BMI
kojenci	7.37	3.38	3.36
batolata	9.72	3.55	4.27
předškolní	13.91	7.86	4.05
mladší školní	20.86	10.75	2.83
starší školní	24.2	13.29	2.15
adolescence	22.07	12.4	1.52
raná dospělost	18.95	11.92	5.02

©AV 1992 Caterpillar Research 2011

The development of epidemic children obesity - Tsunami effect



Chance of obesity in 5 years

57% for obesity of friend
37% for obesity of spouses

Genetics of obesity

80% for both parents
50% for one parent
40% siblings

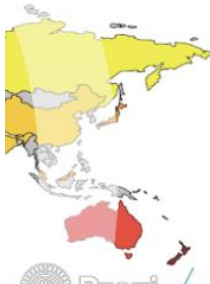
Social network of obesity
- infectivity



Linie mezi body představují sociální spojení osob
fialová - genetické (děti, manželé, sourozenci), zelená - negenetická (přátelé, známé)

N.A. Christakis, J.H. Fowler

Boys 2000-2006



Common obesity

Pandemic civilization disease
Chronic cardio-metabolic disease



©David Fierstein 2002

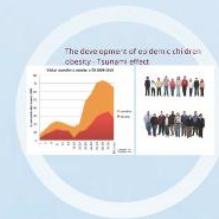
Tip of the iceberg of civilization diseases

Genetically modified population with lack of movement and with absolute or relative overeating in obesigenic environment.

WHO define pandemic obesity as the most serious health problem

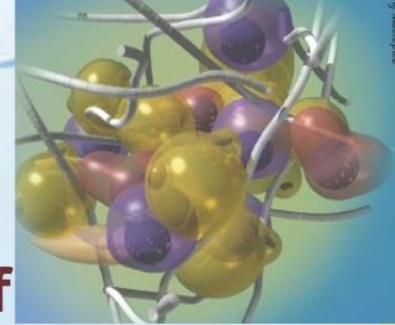
Chronic cardio-metabolic disease

The loss of physiological regulatory mechanisms of fat cells and the development of cardiometabolic changes

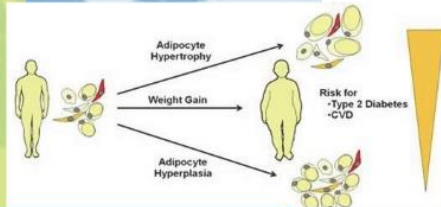
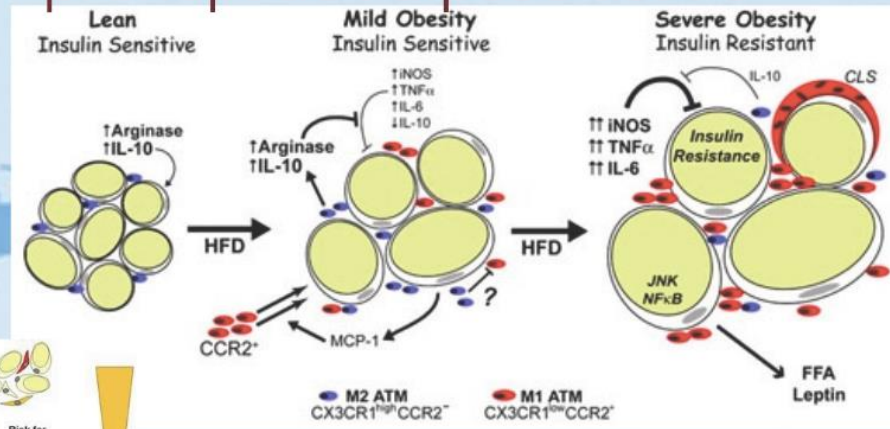


Adult Obesity - a health cash

Being overweight is a health cash
3, obesity by 7 and
Obesity prevention
prevention of car
Treatment of obes
consumes 10-15%



Pathophysiology of metabolic consequences prehepatic adipose tissue





Adult Obesity - a murderer and thief consenting health cash

Being overweight in forty shortens life expectancy by 3, obesity by 7 and morbid obesity by 14 years.

Obesity prevention has higher importance than prevention of cancer from smoking.

Treatment of obesity and related complications consumes 10-15% of societal health costs

Child obesity - childhood thief and a source of unipolar depression

zabráně
u žen - mor
u diabetiků - n
u diabetiků - pokle
po gastrickém b
nádorová mor

Character
common c
obesity
Source of childh



Characteristics of common children obesity

Source of childhood obesity is failing family lifestyle

Nutritional wasteland desert

Movement abstemiousness lack

Thief of Childhood

accelerate the onset of puberty by 0.13 year on 1 point of BMI

for 25 years in the U.S. for girls to -1 year lowering population

Opens a window of unipolar depression

as opposed to a European worldview

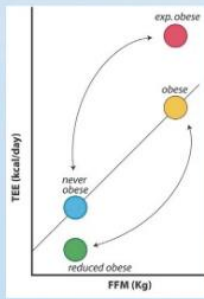
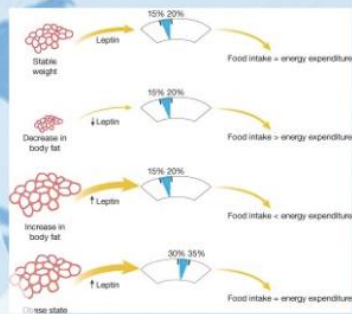
pillars: beauty, health, success, tolerance

Children do not grow out of obesity





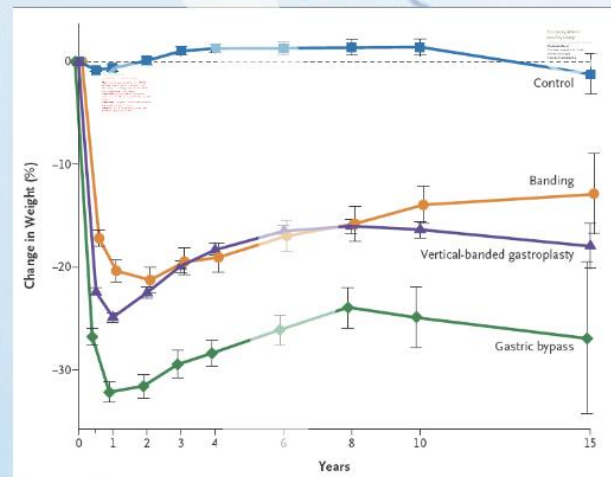
Long-term results of treatment



ADIPOSE CELLULARITY



The lifelong incurable disease



Thank you for your attention



s detmi proti obezite.cz

The whole world lay at his feet
and died at 38. Note the size of the funerary urn