



Obesity as a Result of Technological Advancement

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Abstract

Weight problems are the situation of being a great deal too heavy for one's top in order that one's health is affected. In other phrases, it means to be too overweight. Also known as being fat. It is considered a disease and has been defined as a virus. To realize if someone is obese, the Body Mass Index (BMI) is calculated, via dividing the man or woman's weight (in kilograms), by way of their top (in meters) squared (increased by way of itself). (this is simplest meaningful for adults who are fully grown, and have to no longer be used for youngsters. growth charts can be used to degree obesity in children.) A BMI among 18.5 and 25 is considered normal. People with a BMI of 25 or extra are stated to be obese; with 30 and above, they're considered overweight, and with 35 and above, they're considered significantly overweight (this was once called morbidly obese). In general, the BMI range is a good quantifiable size of a person's weight problems. however, it's far a negative predictor in people who are very athletic, because someone with a higher than average quantity of muscular tissues will weigh extra than a median man or woman, as a consequence resulting in a BMI this is higher than ordinary, even though that man or woman may be very large.

Keywords: Diet; BMI; Weighing; Obesity; BVI

Introduction

The fitness effects of being overweight but now not obese are debatable, with some research showing that the mortality rate for people who are labeled as overweight (BMI 25 to 29.9) may truly be decrease than for people with a "best" weight (BMI 18.5 to 24.9). Fitness dangers for folks who are obese may be reducing through the years because of upgrades in medical care. The degree to which a person is obese is typically described through the Body Mass Index (BMI) [1]. Obese is described as a BMI of 25 or greater, as a consequence it includes pre-obesity defined as a BMI between 25 and 29.9 and obesity as described with the aid of a BMI of 30 or extra. Pre-obese and overweight however are often used interchangeably, therefore giving overweight a not unusual definition of a BMI of between 25 and 29.9. There are, however, several different not unusual ways to degree the amount of adiposity or fats present in a character's frame [2]. The most effective remedy for weight problems is bariatric surgical operation. Surgical operation for intense weight problems is related to lengthy-time period weight reduction and decreased

universal mortality. One study determined a weight loss of among 14% and 25% (depending at the form of manner achieved) at 10 years, and a 29% reduction in all-purpose mortality whilst compared to standard weight reduction measures. Some other study also discovered decreased mortality in folks that underwent bariatric surgical treatment for intense obesity [3]. Management of weight problems can consist of lifestyle modifications, medicinal drugs, or surgery. Although many researches have sought effective interventions, there is presently no proof-primarily based, properly described, and efficient intervention to save you obesity. The principle remedy for obesity includes weight loss via ingesting prescribed diets and growing bodily exercising. A 2007 assessment concluded that certain subgroups inclusive of people with kind 2 diabetes and girls who undergo weight reduction display long time blessings in all-reason mortality, at the same time as lengthy-term consequences for men are "not clear and want further research" One medication, orlistat, is contemporary widely available and approved for long time use. Weight reduction is modest, with an average of 2.9 kg (6.4 lb.) at 1 to 4 years; however there's little statistics on how those drugs have an effect on longer-term headaches of weight problems. Its use is related to excessive rates of gastrointestinal facet effects [4].

Diet programme

Food regimen packages can produce weight reduction over the quick term and (to a lesser volume) over the lengthy-term, although combining with exercise and counseling provide greater effects. Dietary and lifestyle adjustments are effective in restricting excessive weight gain in being pregnant and enhance outcomes for each the mom and the child. Obesity is a threat issue for many persistent bodily and mental illnesses. Due to the social stigma of weight problems, folks who are overweight might also receive poorer healthcare than ordinary weight individuals, doubtlessly contributing to the relationship between obesity and terrible fitness results [5]. Those who experience weight-associated discrimination, no matter their real weight popularity, similarly have poorer fitness outcomes than people who do now not enjoy weight-associated discrimination. Individuals who are overweight are also much less probably to searching for hospital treatment than folks that aren't obese, despite the fact that the weight benefit is caused by clinical issues. Some have proposed that weight problems-associated scientific conditions can be produced more often than not be strain from the social stigma of weight problems, in place of from obesity.

Body mass index

The Body Mass Index (BMI) is a measure of someone's weight taking into account their height. Its miles given by way of the following method: BMI equals someone's weight (mass) in kilograms divided via the rectangular of the individual's top in metres [6]. The gadgets consequently are kg/m² however BMI measures are usually used and written without units.

BMI affords an extensively extra accurate representation of frame fats content than actually measuring a person's weight. It is simplest moderately correlated with each body fats percent and body fat mass. It does now not keep in mind certain elements inclusive of pregnancy or bodybuilding; however, the BMI is an accurate reflection of fats percent in the general public of the person populace [7].

Body volume index

The Body Volume Index (BVI) becomes devised in 2000 as a pc, rather than guide, dimension of the human body for obesity and an opportunity to the BMI. BVI makes use of 3D software to create an accurate photo of someone so BVI can differentiate between humans with the equal BMI score, but who have a one-of-a-kind form and distinctive weight distribution [8]. BVI measures where a person's weight and the fats are positioned on the body, rather than general weight or overall fats content and places emphasis on the weight carried around the abdomen commonly referred to as primary weight problems. There has been recognition in recent years that stomach fat and weight around the abdomen represent an extra health danger.

Simple weighing

A person's weight is measured and compared to an estimated ideal weight. This is the easiest and maximum not unusual method, but via far the least correct, as it only measures one quantity (weight) and often does not recollect many factors such as peak, frame type, and relative amount of muscular tissues. The skin at numerous precise factors at the body is pinched and the thickness of the ensuing fold is measured. Those measures the thickness of the layers of fats placed below the pores and skin, from which a trendy measurement of general amount of fat within the body is calculated [9]. This approach may be moderately accurate for many humans, however it assumes particular fats distribution patterns over the frame which may not apply to all people, and does no longer account for fats deposits now not at once under the skin. Additionally, as the size and evaluation normally involves an excessive diploma of exercise and interpretation, an accurate result requires that an expert carry out it. It can't normally be done via sufferers themselves.

Bioelectrical impedance analysis

A small electric powered modern-day is surpassed via the frame to measure its electrical resistance. As fats and muscle behavior power in another way, this technique can offer an instantaneous dimension of the body fat percent, when it comes to muscle mass. In the past, this method could best be achieved reliably by skilled experts with specialized equipment, however its miles now possible to shop for home checking out kits that permit humans try this themselves with at the least training [10]. No matter the progressed simplicity of this process through the years, however, several of factors can affect the effects, such as hydration and body temperature, so it still needs some

care when taking the check to make sure that the consequences are accurate.

Reference

1. Stevens GA, Singh GM, Lu Y, Danaei G, Lin JK, et al. (2012) National, regional, and global trends in adult overweight and obesity prevalences. *Popul Health Metr* 10: 22.
2. Hu FB (2007) Obesity and mortality: Watch your waist, not just your weight. *Arch Intern Med* 167: 875.
3. Alberti KGM, Zimmet P, Shaw J (2005) The metabolic syndrome a new worldwide definition. *The Lancet* 366: 1059–62.
4. Flegal KM, Wei R, Ogden CL, Freedman DS, Johnson CL, et al. (2009) Characterizing extreme values of body mass index-for-age by using the 2000 centers for disease control and prevention growth charts. *Am J Clin Nutr* 90: 1314–20.
5. Liang YJ, Xi B, Song A-Q, Liu J-X, Mi J (2012) Trends in general and abdominal obesity among Chinese children and adolescents 1993-2009: General and abdominal obesity in Chinese children. *Pediatr Obes* 7: 355–364.
6. Rankinen T, Rice T, Teran-Garcia M, Rao DC, Bouchard C (2010) FTO genotype is associated with exercise training-induced changes in body composition. *Obes Silver Spring Md* 18: 322–326.
7. Shai I, Schwarzfuchs D, Henkin Y, Shahar DR, Witkow S, et al. (2008) Weight loss with a low-carbohydrate, mediterranean, or low-fat diet. *N Engl J Med* 359: 229–241.
8. Bigaard J, Frederiksen K, Tjønneland A, Thomsen BL, Overvad K, et al. (2004) Body fat and fat-free mass and all-cause mortality. *Obes Res* 12: 1042–1049.
9. Boutelle K (2006) Weighing the evidence: Benefits of regular weight monitoring for weight control. *J Nutr Educ Behav* 38: 131.
10. Lukaski HC, Johnson PE, Bolonchuk WW, Lykken GI (1985) Assessment of fat-free mass using bioelectrical impedance measurements of the human body. *Am J Clin Nutr* 41: 810–817.