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OBESITY AND OBESITY-ASSOCIATED DISEASES IN CHILDHOOD

Abstract: Obesity represents one of the most complex clinical syndrome. The frequency of this syndrome is in a great expansion in all age, even in child and youth. Increase of 10% obese child per each decade modify morbidity frame. Former rarities diseases are now very frequent (diabetes type 2, polycystic ovary syndrome) or new diseases constitute actually (“double” or hybrid” diabetes). Also, now is more clear connection between obesity and major public health problems: cancers, inflammations or premature sexual development. In establishing each of this process fat tissue has key pathogenic role, like endocrine and innate immune organ. Obesity launches this syndromes by secreting many hormones and cytokines (adiponectin, TNF- α , interleukin-6).

Key words: fat tissue, diabetes type 2, polycystic ovary syndrome, hybrid diabetes, adiponectin, TNF- α , interleukin-6.