Famous microcephaly adults

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Famous microcephaly adults

Condition in which the head is small due to a underdeveloped brain "Microcephalus" redirects here. For the genus of coleopter, see Microcephalus (beetle). For the spider genre, see Argyrodes. Medical status Microcephaly A child with microcephaly (left) compared to a child with a typical size of the headPronuncia/ ama dikroTIONS'sɛfəli:/ SpecialtyGenetics, Psychiatry, NeurologySynthesis Head and brain abnormally small, neurological alterations Insert congenital CauseUsually genetic exposure or toxin during pregnancy Prevention Avoid alcohol consumption during pregnancy A mother holding her son who was born with microcephaly due to infection transmitted vertically with the Zika Microcephaly virus (from New Latin microcephaly, from ancient Greek μικρός mikrós "small" and κεφαλή chefalé "head"[2]) is a medical condition that involves a smaller head than normal. [3] Microcephaly can be present at birth or may develop in the early years of life. [3] Since brain growth is related to head growth, people with this disorder often have an intellectual disability, poor motor function, bad speech, abnormal facial features, seizures and dwarfism. [3] Disorder is caused by disintegration to genetic processes that form the brain early in pregnancy,[3] although the cause is not identified in most cases. [4] Many genetic syndromes can cause microcephaly, including chromosomal and monogeneous conditions, although almost always in combination with other symptoms. The mutations that are exclusively translated into microcephaly (microcephaly primary) exist but are less common. [5] Toxins outside the embryo, such as alcohol during pregnancy or infections transmitted vertically, can also cause microcephaly. [3] Microcephaly acts as an important neurological indication or warning signal, but there is no uniformity in its definition. It is usually defined as a head circumference (HC) more than two standard deviations below the middle for age and sex.[6][7] Some scholars claim to define it as a circumference of the head more than three standard deviations below the middle for age and sex. [8] There is no specific treatment that returns the size of the head to normality. [3] In general, life expectancy for individuals with microcephaly is reduced, and prognosis for normal brain function is poor. Occasional cases develop normal intelligence and grow normally (other than persistently small head circumference). [3] [required] It is said that in the United States, microcephaly occurs in 2 to 12 children for 10,000 births. [4] Signs and symptoms There are a variety of symptoms that can occur in children. Infants with microcephaly are born with a sizeor reduced head. [9] Later, the head fails to grow, while the face continues to develop at a normal pace, producing a child with a small head and a fenced front, and a loose scalp, often wrinkled. [10] When the child grows older, the smallness of the skull becomes moreAlthough the whole body is often underweight and dwarfed.[9] Gravely impaired intellectual development is common, but motor function disorders may only occur later in life. [9] Affected infants generally have severe neurological defects and seizures.[9] The development of motor function and language can be described as a result of the development of motor function and speech. dumb. Hyperactivity and intellectual disability are common phenomena, although the degree of each of them varies. Seizures may also occur. Motor ability varies, from clumsiness in some to spastic quadriplegia in others.[11] Causes Neural Scans of a Normal Skull (left) and a Case of Microcephaly (right) Microcephaly is a type of head disorder. It has been classified into two types according to onset:[12] Congenital This section requires further quotations for verification. Please help improve this article by adding citations to reliable sources. Non-source material can be challenged and removed. (February 2016) (Learn how and when to remove this message template) Isolated familial microcephaly (autosomal recessive) [13] Autosomal dominant microcephaly[14][15] X-linked microcephaly [13] Chromosomal (balanced rearrangements and ring chromosome) Syndromes Chromosomal Syndrome Poland syndrome[16] Down syndrome[17] Edward syndrome[18] Patau syndrome[19] Unbalanced rearrangements Contiguous 4p deletion gene deletion (syndrome) WolfâHirschhorn) deletion 5p (Cri-du-chat) 7q11.23 deletion (William syndrome) 22q11 deletion (DiGeorge Opitz Syndrome Seckel Syndrome Cornelia de Lange Syndrome Oloprosencephaly Primary Microcephaly 4[20] Wiedemann-Steiner Syndrome Acquired Disaggregative Injuries Ischemic Ictus[21] Hemorrhagic Ictus[21] Death of a monozygotic Vertically transmitted Twin infections Infection congenital cytomegalovirus[22] Toxoplasmosis[22] Congenital rubella syndrome[22] Congenital varicella syndrome[22] Zika virus (see Zika fever#Microcephaly) [23] Drugs Fetal Idantoin Syndrome[22] Fetal Alcohol Syndrome[22] Other Radiation Exposures To the Mother Maternal Malnutrition[22] Maternal phenylketonuria[22] Poorly controlled gestational diabetes Hyperthermia Maternal hypothyroidism Placental insufficiency Craniosynostosis[22] Insufficiency postnatal emergency This section requires further citations for verification. Please help improve this article by adding citations to reliable sources. Non-source material can be challenged and removed. (February 2016) (Learn how and when to remove this message template) Congenital Genetic Errors of Metabolism Congenital Glycosylation Disorders[24] Mitochondrial Disorders[25] Peroxisomal Disorders[26] Glucose transporter defect[27] Menkes disease Congenital disorders of the metabolism of congenital amino acids metabolism of amino acids[28] Continuing gene delection syndrome 17p13.3 (Miller syndrome) [30] Single genetic defects Rett syndrome (especially girls) Nijmegen Lissencefalia X-linked rupture syndrome with abnormal genitals AicardiÃ´res Atassia telangie Actasia Actasia ActasiaCockayne Syndrome Chronic renal disease [31] Ipoxica-Ischemica [22] Ischemic stroke [21] Hemorrhagic stroke [21] HIV encephalopathy infections [32] Meningitis [33] Encephalitis [34] [3] The relationships were found Between autism, duplications of genes and macrocephaly on one side. On the other hand, a relationship between schizophrenia was found, gene and microcephaly deletions. [40] [41] [42] Several genes have been designated "MCPH", after microcephalin (MCPH1), based on their role in brain size and primary microcepheal syndromes when changed. In addition to the microcephaline, these include WDR62 (MCPH2), CDK5RAP2 (MCPH3), KNL1 (MCPH4), ASPM (MCPH5), CENPJ (MCPH6), STIL (MCPH7), CEP135 (MCPH8), CEP152 (MCPH9), ZNF335 (MCPH10) , PH121 (MCPH11) and CDK6 (MC). [5] Furthermore, an association has been established between common genetic variants within known microcepheal genes (such as MCPH1 and CDK5RAP2) and normal variation in the cerebral structure as measured with magnetic resonance (MRI) â € ", mainly Cebral cortical surface and total brain volume. [43] The spread of the Zika virus, born from the Aedes mosquito, was implicated in the increase in congenital microcephalyst levels by the international society for infectious diseases and US centers for diseases control and prevention. [44] Zika can spread from a pregnant woman at her fetus. This can lead to other serious brain malformations and birth defects. [45] [47] [48] A study published in the New England Journal of Medicine has documented a case in which they found the test of the Zika virus in the brain of a fetus who showed the morphology of microcephaly. [49] MicrolissenceFalia Main article: MicrolissencePephaly MicrolissencePephaly is a microcephaly combined with lissencefalia (brain surface in fumes due to absent sulfo and gyri). Most of the cases of microlissencefalia are described in pan-consigned families, suggesting an autosomal recessive heritage. [50] [51] [52] Historical causes of the microcephaly after the fall of atomic bombs "Little boy" on Hiroshima and "Fat Man" on Nagasaki, several women near the zero ground that had been pregnant at the moment gave birth to children With microcephaly. [53] Microcefalia was present in 7 children from a group of 11 pregnant women at 11â € "17 weeks of gestation surviving the explosion at less than 1.2 km (0.75 mi) from the zero ground. [54] Because of their proximity to the bomb, pregnant women in uterus children received a significant atomic radiation dose which was relatively high due to the massive exit of neutrons of small small explosive children. Microcephaly and mental retardation. [55] [54] Other reports The intracranial volume also affects this pathology, as it is related to the size of the brain. [56] The microcephaly of pathophysiology is generally due to the diminished size of the largest part of the human brain, the cerebral cortex and the condition can arise during embryonic and fetal development due to insufficient proliferation of neural stem cells, detergents or premature neurogenesis , the death of the neural stem cells or neurons or a combination of these factors. [57] Research in animal models like rodents has found many genes required for normal brain growth. For example, the target destination genes regulate the balance between the proliferation of stem cells and neurogenesis in the stem cell layer known as the ventricular area and experimental mutations of many genes can cause microcephalyst in mice, [58] similar to microcephaly Human. [59] [60] The mutations of the abnormal micro-associated gene (ASPM) of the spindle are associated with microcephaly in humans and a knockout model has been developed in ferrets that show severe microcephaly. [61] Furthermore, viruses such as cytomegalovirus (cmv) or zika infected and kill the primary brain staminated cell - the radial giall cell, resulting in loss of future daughter neurons. [62] [63] Gravity of the condition can depend on the time of infection during pregnancy. [Necessary quote] Microcephaly is a common feature to different different genetic disorders deriving from a shortage in the response of cell DNA damage. [64] Individuals with the following DNA damage response disorders show the microcephaly: Nijmegen's breaking syndrome, ATR-Seckel syndrome, the primary disturbance of the primary microcephaly dependent on MCPH1, the complementary group of Xeroderma Pigmentosum A deficiency, the Fanconi Anemia, the Syndrome of Ligasi 4 of the deficiency and of flowering syndrome. These results suggest that a normal response of DNA damage is fundamental during the development of the brain, perhaps to protect from the induction of apoptosis by DNA damage that occurs in neurons. [Necessary quote] Child treatment with microcephaly during a physical therapy session there is no known care for microcephaly. [3] The treatment is symptomatic and support. [3] Some cases of microcephaly and its associated symptoms can be the result of amino acid deficiencies, treatment with amino acids in these cases has been shown to improve symptoms as convulsions and delays of the engine function. [65] History People with small heads were exposed as a public show in ancient Rome. [66] People with microcephaly have sometimes sold the shows of the in North America and Europe in the 19th and early 20th century, where they were known as "Pinheads". Many of them were presented as different species (e.g., "Monkey Man") and described as missing link. [67] The famous examples include zip the pinhead (although it may not have had microconfalia), [68] Maximo and Bartolo and Schlitzie la Pinhead, [68] Zip the pinhead and andThe Pinheads, also starring in the 1932 film Freaks, were cited as influences in the development of Bill Griffith's comic character Zippy the Pinhead.[69] Significant Cases This section does not cite any source. Please help us improve this section by adding citations to reliable sources. Non-source material can be challenged and removed. (February 2016) (Learn how and when to remove this message template) A "dwarf" of Punt (Ancient Somalia) was given by clan leaders as a partial tribute to the last ruler of the Old Kingdom of Ancient Egypt, Pepi II Neferkare (6th dynasty, circa 2125-2080 B.C.E); it may be inferred that this person was also microcephalic. In a letter preserved in the British Museum, the young King gives instructions by letter: "Harkhuf! The men in your service [guards, soldiers, sailors, guards, etc.] must pay sincere attention to the dwarf's head as he sleeps on his way to the palace" (so that he doesn't fall). At the same time, it could be for other reasons unrelated to microcephaly, etc.[70] Triboulet, a jester of Duke RenÃ© dâAngiÃ2 (not to be confused with the Triboulet, a little later at the French court). Jenny Lee Snow and Elvira Snow, whose stage names were Pip and Zip, were sisters with microcephaly who starred in the 1932 movie Freaks. Schlitze Â"SchlitzieÂ" Surtees, probably born Simon Metz, was a performer and actor of show. Lester "Beetlejuice" Green, member of radio host Howard Sternâs Wack Pack. See also Medicines Portal Anencephaly (usually rapidly fatal) Brain Rubicon Hydrocephaly Macrocephaly Seckel Syndrome Acalasia Microcephaly References ^ Cleveland Clinic. Accessed October 2020 ^ Â"Microcephaly â Definition of Microcephaly by Merriam-Webster.Â" Original archived on 2014-09-14. ^ a b c d e f g h i j Â"NINDS Microcephaly Information Page.Â" NINDS. 30 June 2015. Original archived on 2016-03-11. Retrieved March 11, 2016. ^ a b CDC (2016-12-07). Â"Facts on Microcephaly|Birth Defects |NCBDDD|CDC.Â" Centers for Disease Control and Prevention. Retrieved 30.07.2019 ^ a b Faheem, Muhammad; Naseer, Muhammad Imran; Rasool, Mahmood; Chaudhary, Adeel G; Kumosani, Taha A; Ilyas, Asad Muhammad; Pushparaj, Peter Natesan; Ahmed, Farid; Algahtani, Hussain A; Al-Qahtani, Mohammad H; Saleh Jamal, Hasan (2015-01-15). "The molecular genetics of primary human microcephaly: an overview". BMC Medical Genomics. 8 (Suppl 1): S4. doi:10.1186/1755-8794-8-S1-S4. ISSN 1755-8794. PMC 4 315 316. PMID 25 951 892. ^ Leviton, A.; Holmes, L. B.; Allred, E. N.; Vargas, J. (2002). "Methodological issues in epidemiological studies of congenital microcephaly". 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