Micro Review of Neoteny Disorder

Abstract:

 Neoteny affects a small percentage of the world, and since the disorder only affects a limited number of people there hasn’t been much of a break though as far as treatment goes. Neoteny is the slow or the delayed process of body development and maturation. Neoteny has been labeled as one of the highlights of human evolution. Some scientist will argue that neoteny has to do with an adaptive coping mechanisms with different ecological environments, then others will say that neoteny is caused by sexual selection in human evolution. They are currently no cures for neoteny but there has been advancements as far as catching the disorder before the child is born.

Introduction:

 Neoteny is a genotype -phenotype disorder that correlates with genetic disorders. Neoteny is a disorder that a person is born with, that can be physically seen. Most humans affected by neoteny have larger eyes in the relation to face size, smaller noses, higher cheek bones, smaller chins, thinner jaws, lack of pigmentation in the skin and hair, shorter stature and deposition of fat on the distal extremities. The behavioral affects from neoteny are usually curiosity, prolonged dependency period, emotional attachment, persisting abilities of learning and immaturity. People affected by this order “never age” and even over time the person affected by this disease sees little to no change in their physical and brain development. To be able to catch this disorder the human that is effected must still be in the fetal stage and be able to find and take out the affected chromosome and put in a stable chromosome that will hopefully make the affect fetus be able to have a physical and brain develop normally. There are minimal options when it comes to treatment for neoteny but there have been cases to where neoteny correlates with other psychological disorders that have cures.

Progress:

 Since scientist over time have argued on what causes neoteny, one of the opinions of the cause of neoteny is sexual selection, since dimorphism has similar characters as neotenous it has seemed to have correction between both disorders Neoteny similar to dimorphism is found mostly in females than males. Scientist have argued that due to sex-hormones is the reason that females have been affect with this disorder than males because males are testosterone-dependent, secondary sexual characteristics may signal immemorial competence, as estrogen-dependent contain more endogenous features.(Barber 1995). Neoteny has been compared to several disorder such as personality disorders, schizophrenia and Autism. Due to the lack of maturity and the persistence of children lack behaviors.

In 1974 Jonas and Jonas related neurotic pattern behaviors and physiological symptoms of neotoeny by referring the retention of archaic responses. There have been case studies that concluded a man that had presented rituals, and disgorging food other characters that were presented as hoarding and hibernation. To suicide researches were concluded that this characterizes were because if his neoteny-related morphology but later concluded that neoteny was confused with recapitulation which means a repetitive behavior during the developmental stage.

Even researches have believed that the biology process of the neoteny could have may been caused by cultural evolution, that humans have been trying to keep neotenous traits as long as possible even into the elderly stage of life due to the high rise of beauty industry pushing the juvenile appearance and immature behavior within the Western culture. This is a speculation case that interfered of cultural and biological evolution may be the reason of immaturity that could be impacting the normal psychological maturation which has concluded the rise of neutroticism.

In cases where neoteny has been seen as a genetic disorder as study was conducted at the University of Zagreb which where the patient of is from. Blood test were running with the consent of the patient. Banding cytogenetics from the peripheral blood lymphocytes was the procedure that was done. Then genomic DNA was taken from whole blood with DNA purification kit using the cytogenetics software to be able to express profiles in the brain. After finding the parts of the brain that are affected a brain MRI taken, nothing abnormal was found but in the blood test is where scientist found the aberrant banding pattern on chromosome 1.

Discussion:

The prolong juvenile behavior with abnormal physical neoteny has been one of the unique parts of human evolution. Although they are modifying neotenous characteristics, there are more complex aspects that are involved into neoteny that are out there. There has been little to none break through to finding out where exactly this disorder came from and different approaches such algometric. Research on this disorder has been minimal due to the fact that there are not a lot of people affected by this disorder, and the evidence that this disorder can be cause by the cultural environment that a person is in could be a factor..

Reference:

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