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Stem Cell and Mental Health in the Childs

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Abstract

The relationship between physical and chemical tissues of brain specially brain neurons has close relation with mental problems and wide variety of social behaviors including treating life problems, marriage, divorce, relatives' death, jealousy, patience and making life great decisions including: buying car, house and other things. This difficulty can be influenced by chromosome, environmental disorders or combination of both, before and after birth. Consuming ant-depression medicines has its own side-effects. 50% of failures in treating depression disease are due to stopping medicines consumption due to their serious side effects. 20 % of patients, though consuming medicines, are not treated, in other words medicines are not compatible to them. Among this 20%, 10% are those suffering from severe depression.

Keywords: Stem cell; Mental health; Genetics; Brain; Hormone

Introduction

The relationship between physical and chemical tissues of brain specially brain neurons has close relation with mental problems and wide variety of social behaviors including treating life problems, marriage, divorce, relatives' death, jealousy, patience and making life great decisions including: buying car, house and other things [1]. This difficulty can be influenced by chromosome, environmental disorders or combination of both, before and after birth. Consuming ant-depression medicines has its own side-effects. 50% of failures in treating depression disease are due to stopping medicines consumption due to their serious side effects [2]. 20 % of patients, though consuming medicines, are not treated, in other words medicines are not compatible to them. Among this 20%, 10% are those suffering from severe depression. Generally prescribed medicines for treating these severe mental disorders are not effective. Hence just 30% of patients achieve their treating objective, in long term and regular consumption procedure. Pleasure and pain indifferent parts of brain tissue and its scientific plan design, this plan was identified by strong scanners on 2009 [3]. This picture was borrowed from Washington clinical research center.

Methods

Stem cells injection is new, interesting and appointing issue. The source of these questions can be discussed. The higher power of distinction and cell proliferation, the higher risk of developing cancer [4]. So we should inform patients from stem cells type advantages and disadvantages from eliciting point of view [5,6]. Although using embryonic cells of other people has higher level of success, it has its own risks, also [7]. On average, using

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controlling medicines decreases teen years of people longevity. This is due to destruction of vast parts of telomerase which loses its power in cells telomere restoration harshly in the absence of body immunity system. Doing so, cells become old and vanished sooner than their natural time [8]. Using stem cells in people have not above mentioned harms, though the probability of being successful in treatment is low and in the case of success, cells consolidation and transformation is relative. Hence which treatment method should be selected for patients? A relatively old theory, proposes the thesis that when stem cells were injected to vessels around injured tissue, these cells automatically and intelligently soon realize injured tissue and start to proliferate and generate professional cells in underlying area. One of the most important issues in treatment is that, following items should be considered in detail in underlying stem cell.

a. Starting and activating method of gene related to stem cell converting to related professional neuron
b. Identifying cell place in stem cell chromosome structure
c. Putting stem cells in determined place which surely be present at brain structure which is related to related behavioral disorders. An important question arises here that, why genetics cannot carry out treatment procedure lonely and without need for stem cells science?

Before answering this question consider following issues carefully:

1-lost neurons through cell proliferation induction to remained cells, restoring destructed cells due to chronic and frequent increase cortisol level in blood level or turning on genes related to neurotransmitters in neurons where turn off these genes due to stress, are hypothesis proposed in depression patients genetic treatment.

After mentioning above cases, we can answer above-mentioned question.

Answer: If we suppose that according to genetics technology all of 3 proposed hypotheses are correct, then we would never discuss about treatment till having no knowledge about reducing ways of neurotransmitters including dopamine and serotonin in brain cells which was reduced due to chronic stress [9]. Even if we achieve this knowledge, i.e. if we obtain formula of tautology way of chronic stress on brain and finally developing depression, again our response to above mentioned question will remain with probabilities which highlight treating method with stem cells for us regarding genetics. The big challenge is that availability to brain neurons, on one hand, and direct genetic manipulation and work on these neurons, on the other hand, is a highly expensive act, since cell proliferation induction to remained cells of destroyed genes restoration, activating silent genes require us to have access to cells inter-nuclear at first stage and to control it based on treatment aims at second stage. This is time consuming and expensive method. If we imagine that financial and technological problems was solved in a way, the destroyed genes restoration (as a result of higher stress) would be hard task because of no cell proliferation law in brain cells and gens destruction.

Results

Using stem cells sciences in addition to being appropriate for patients from source and origin point of view, has not complexity of above mentioned cases. These patients' classic depression will be controlled and a kind of non-classic depression, which is appeared through age passage, could be expected. If above mentioned method was used the behavioral disorders side effects will be decreased in treated patients [10]. The most important thing is that through completion of this treating technology, it can come in handy in treating brain disease including Parkinson, Alzheimer.

Conclusion

Finally the happiness and mental relaxation obtained for patents in this treatment method is not comparable to temporal and general relaxation obtained from consuming anti-depression medicines. This study was carried out in two groups, one of which experienced medicine consumption for four months and the other experienced treatment through stem cells [11]. This study confirms healthy, cheep, economical, effective nature of stem cells treatment method. When studying performance method of brain neuron disorders in people, we came across with new attitudes which are amazing.

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