



CRYO-REJUVINATION – A HOPE OF THE CENTURY FOR HIV/RETRO POSITIVE

Dr. Satender Tanwar*, Anirudh Aditya, Dr. Kiran M. Goud*****

*Junior Resident, Department of Surgery at Skamch & Rc, Bangalore.

**Medical Scholar, United States, Mississippi.

***Professor & Head of Institution Skamch & Rc, Bangalore.

***Author for Correspondence: Dr. Satender Tanwar**

Junior Resident, Department of Surgery at Skamch & Rc, Bangalore.

Article Received on 21/11/2015

Article Revised on 11/12/2015

Article Accepted on 31/12/2015

ABSTRACT

Cryonics is the science which deals with the techniques in which the body temperature is lowered down to extreme sub-zero temperatures so that it may be preserved for long durations. At present the HIV infection is a global threat and millions of the people are suffering with both the infect ion and the terminal stages such as AIDS. To describe the HIV virus, it's an RNA virus and follows the mechanism of reverse transcriptase, that's Why it's considered to be a retrovirus. The family of retrovirus has an unique tendency to make the DNA from RNA one step before that is usually not found anywhere else. HIV doesn't have its own self metabolism and relies upon the metabolism of the host specifically the CD4⁺ cells. When the HIV is exposed to extremely low temperatures (negative 60 degrees Celsius) the virus denatures and the host is freed from the infection. Considering the principle of cryonics, we have coined a new word, Cryo-rejuvenation – transient exposure of HIV/Retro Positive patients to extreme sub-zero temperatures, to destroy and denature the virus. A study on animals is yet to be carried out to prove the principle.

KEYWORDS: AIDS- Acquired Immuno Deficiency Syndrome, Cryonics, HIV- Human Immunodeficiency Virus, RNA- Ribo nucleic Acid.

There is no cure of AIDS. Treatment for AIDS involves antiretroviral therapy or ART. ART blocks HIV at different stages and is very effective in stopping the multiplication of the HIV.

- Nearly 37 million people are now living with HIV.
- 2.6 million are under the age of 15.
- In 2014, an estimated 2 million people were infected with HIV.
- 220,000 were under the age of 15.
- Every day about 5,600 people contract HIV – More than 230 every hour.
- In 2014, 1.2 million people died from AIDS.
- Since the beginning of the pandemic, nearly 78 million people have contracted HIV and close to 39 million have died of AIDS- related symptoms.
- As of march 2015, around 15 million people living with HIV(41% of the total) had access to the antiretroviral therapy.

Adult humans have survived cooling to temperatures that stop the heart, brain, and all other organs from functioning for up to an hour. These and many other lessons of biology teach us that life is a particular *structure* of matter. Life can be stopped and restarted if cell structure and chemistry are preserved sufficiently well.

With the use of cryopreservatives, the human body can be exposed to extremely cold temperatures with little or no ice formation or freezing of tissue. This is known as vitrification. Through vitrification the human body can withstand temperatures below -120 degrees Celsius. Organs as large as the brain, can now be vitrified maintaining structural preservation without freezing over.

In 2015 Du Hong, a 61-year-old female writer of children's literature, became the first known Chinese person to be cryopreserved.

Through cryonics, the life span of a human can be significantly longer. The major flaw with cryonics lies in the fact technology has not come to a state where we can revive a person who has been cryogenically frozen. This bring us to the theory Cryo-rejuvenation. What if we could expose the human body to sub-zero temperatures without “shutting down” the body? This would in theory restart the body, killing off viruses and bacteria which can not survive in extreme cold and denature them, ridding the body of these harmful intruders. This would happen in a matter of minutes once the human body was exposed. And as soon as the body exited the sub-zero temperatures, its normal body functions would continue

and any cells lost in the denaturing process would be re-created WITHOUT the viruses and bacteria.

The entire Cryo-Rejuvenation process would be over in 5 to 10 minutes. Cryo-Rejuvenation not only has the capability to rid the body of HIV, but cancer as well.

CONCLUSION

A Definitive Cure for HIV/AIDS, would have to completely destroy the HIV inside of the body, but without damaging the CD4 cells.

Cryo-rejuvenation would work under the same premise of the cryosurgery. Using extreme cold to destroy the infectious HIV in the body. HIV can not survive outside the body, So cryo-rejuvenation would essentially use extremely cold temperatures to change the environment inside the body, killing the HIV. This would have to be done without damaging the person's tissue and vital organs. The human body can survive between 5 to 10 minutes in -100 degree Celsius before undergoing hypothermia and eventually death.

To successfully achieve cryo-rejuvenation, the human body's core temperature would need to stay above 70 degrees Fahrenheit during the process of cryo-rejuvenation while the environmental temperatures would be below -100 degrees Celsius. This temperature sufficient enough to denature the HIV in body.

Hence, using the Cryo-rejuvenation technique, the human body can be made HIV free.