Chapter 14

The Meditative Brain - Anti-Gravitational Waves, the Universe and Structure of the Human Unconscious Mind - Evidence from Studies on Schizophrenia and Autism

Introduction

Meditation can modulate body metabolonomics and brain function. The mechanism is by induction of the heme oxygenase system. Meditation induced heme oxygenase which converts heme to carbon monoxide and bilirubin. Bilirubin and biliverdin are free radical scavengers and mops up free radicals. Free radicals are required for the function of the NMDA dependent thalamo-cortico-thalamic feedback reverberatory circuit crucial in consciousness. This circuit mediates working memory and focused attention. Free radicals also activate NMDA and by its capacity of diffusing freely through the brain systems can induce NMDA activity, synchronized burst firing of neurons in different parts of sensory areas producing perceptual synchronization. This mediates consciousness. Thus the scavenging of free radicals by heme oxygenase leads to suppression of consciousness and meditative trances. Heme oxygenase induction suppresses ALA synthase. Thus heme is depleted from the system. There is increased porphyrin synthesis leading onto porphyrinuria and porphyria. The stimulus for porphyrin synthesis comes from heme deficiency. Porphyrins can organize into self replicating supramolecular structures called porphyrions which are induced by meditative practices. The porphyrins can self organize to form macromolecular structures which can self replicate to form a porphyrin organism. The photon induced transfer of electrons along the macromolecule can lead to light induced ATP synthesis. The porphyrins can form a template on which RNA and DNA can form generating viroids. The porphyrins can also form a template on which prions can form. They all can join together - RNA viroids, DNA viroids, prions - to form primitive archaea. Thus the archaea are capable of self replication on porphyrin templates. The self replicating archaea can sense gravity which gives rise to consciousness. They can also sense the anti-gravity fields which

gives rise to the unconscious brain. Thus there can be both self replicating archaea and anti-archaea regulating the conscious and unconscious brain. Thus the climate change stress mediated increased porphyrin synthesis leads to prefrontal cortex atrophy, cerebellar dominance, cerebellar cognitive affective disorder, quantal perception and Neanderthalisation of the population. The porphyrions are self replicating supramolecular organisms which forms the precursor template on which the viroids, prions and nanoarchaea originate. Meditative stress induced template directed abiogenesis of porphyrions, prions, viroids and archaea is a continuous process and can contribute to changes in brain structure and behavior as well as disease process.

The cerebellum is the site of the unconscious brain. Cerebellum is concerned with automatic acts. Robotic behavior as seen in autism is localized to cerebellum. The cerebellum is concerned with extrasensory perception, magical acts, poltergeist phenomena and spiritual acts. The cerebellum can be described as the part of the collective unconscious. Cerebellar lesions also manifest with motor phenomenon. Lesions of the cerebellum manifest with axial and appendicular ataxia. This gives a sense of antigravity feeling. Cerebellum is concerned with the tone of the antigravity muscles. The antigravity fields and waves are sensed by the cerebellum. Cerebellar lesions manifest with cognitive dysfunction described as the cerebellar cognitive affective disorder. Cerebellar dysfunction is described in autism and schizophrenia. Studies on normal conscious individuals and disorders of consciousness like schizophrenia and autism show changes in cerebrospinal fluid archaeal activity as measured by cytochrome F420 assay. Schizophrenia and autism show increased CSF cytochrome F420 activity and normal conscious patients show normal activity. This indicated actinidic archaeal growth in the central nervous system. Actinidic archaea can modulate conscious perception. Actinidic archaea are extremophiles and can grow in extremes of temperature, space and antigravity

situation.[1-3] This led to the plausibility of antigravity wave sensing brain actinidic archaea mediating the functions of the unconscious brain.

Materials and Methods

The permission of the ethics committee of the centre and individual consent was obtained for the study. The groups included in the study are normal individuals undergoing meditative practices, normal conscious individuals (undergoing spinal procedures for surgery), persistent vegetative bihemispheric infarction patients and disorders of consciousness like schizophrenia and autism. There were 10 individuals in each group. CSF was used for the study and the experimental protocol was as follows (I) CSF+phosphate buffered saline, (II) same as I+cholesterol substrate, (III) same as II+cerium 0.1 mg/ml, (IV) same as II+ciprofloxacine and doxycycline each in a concentration of 1 mg/ml. Cholesterol substrate was prepared as described by Richmond. Aliquots were withdrawn at zero time immediately after mixing and after incubation at 37 ℃ for 1 hour. Cytochrome F420 was estimated flourimetrically (excitation wavelength 420 nm and emission wavelength 520 nm).

Results

CSF of normal subjects showed increased levels of the cytochrome F420 after incubation for 1 hour and addition of cholesterol substrate resulted in still further significant increase in these parameters. The CSF of patients of schizophrenia and autism showed similar results but the extent of increase was more when compared to normal conscious individuals. The CSF of normal conscious individuals showed decreased intensity of cytochrome F420 as compared to CSF of schizophrenia and autism patients. The addition of

antibiotics to the normal conscious patient CSF caused a decrease in cytochrome F420 activity while addition of cerium increased its activity. The addition of antibiotics to the schizophrenia and autism CSF caused a decrease in cytochrome F420 activity while the addition of cerium increased its activity but the extent of change was more in patient's sera as compared to normal conscious individuals. The results are expressed as percentage change in the parameters after 1 hour incubation as compared to the values at zero time.

Table 1. *Effect of cerium and antibiotics on cytochrome F420.*

Group	CYT F420 % (Increase with Cerium)		CYT F420 % (Decrease with Doxy+Cipro)	
	Mean	± SD	Mean	± SD
Normal	4.48	0.15	18.24	0.66
Schizophrenia	23.24	2.01	58.72	7.08
Autism	21.68	1.90	57.93	9.64
Meditation	24.33	1.89	53.55	8.99
F value	306.749		130.054	
P value	< 0.001		< 0.001	

Discussion

Dark matter and dark energy is the repulsive antigravity force that permeates the entire universe opposing gravity. It is responsible for the missing mass of the universe and constitutes 70 percent of the mass of the universe. It is responsible for the expansion of the universe. Antigravity exists as possible antigravity waves. This forms part of quantum vacuum were matter and anti-matter particles and gravity and antigravity particles meet and annihilate each other. This gives rise to the phenomenon of zero point energy or vacuum energy which drives the creation of the universe.

Just as gravity forms the conscious mind antigravity forms the unconscious mind pervading the universe as a whole. All forms of the universe are sustained by dark energy which can be called as prana, chi and ki. The dark energy permeates both animate and inanimate objects. When the dark energy recedes from an organ it loses its function. The dark energy is the cause of the function of the body and mind. At death the dark energy leaves the body and mixes with that of the universe. Our growth as a human body is against gravity and is an antigravity phenomenon. Levitation is also an antigravity phenomenon. The antigravity or dark energy or dark matter exists as antigravity waves. This forms the unconscious mind.

The cerebellum is concerned with motor programming and memory and robotic acts which do not reach conscious function. The cerebellum is concerned with cognition. The cerebellum plays a role in unconscious motor acts, extrasensory perception and quantal perception. The prefrontal cortex is concerned with executive memory, logic, reasoning and judgment. Thus the reticular formation forms the bridge between the conscious and unconscious parts of the brain. Reticular formation is a primitive neural network. The dentrites and axons forming the bridges of the neural network can be compared to a bacterial flagella based on the symbiotic theory of Margulis on cell evolution.[7] Margulis postulated that bacteria like spirochetes contributes to the cytoskeleton and axodendritic tree of the brain. Studies from this laboratory have demonstrated archaeal cytochrome F420 activity in the cerebrospinal fluid and blood. The brain reticular formation can be compared to a primitive archaeal bacterial colony network inhabiting the CNS from one end to other. The archaea being extremophiles would have evolved in the outer space in hypergravity situations and reached the earth by meteoric impacts producing the seeding of life on earth. The reticular formation and its connections form the basis of gravitational action in the brain.

Bacteria can grow in hypergravity and antigravity as in the case of extremophilic archaea.[2, 3] Gravity may thus involved in bacterial panspermia and exobiology with actinidic archaea as the prime example.[3] Studies on effects of low gravity in space show drastic effects in human brain. Nerve cells need gravity to grow and function properly. The lack of gravity affects neuronal migration and produces microcephaly. The dendritic tree in the absence of gravity looks like as if it has been stripped off all branches. Gravity structures the brain. Gravity can modulate the pyramidal and extrapyramidal syndrome. Rigidity is more in the muscles acting on gravity. Gravity can modulate cerebellar hypotonia. Gravity can also affect conscious perception. The syndrome of G-LOC is described in fighter pilots exposed to high gravity field chambers. They have features of near-death experience with godly visions, meeting dead relatives, seeing hallucinatory lights and tunneling effect.

Cortical and cerebellar lesions produce different clinical signs. Cortical lesions lead to spasticity and antigravity effects. Cerebral cortex is the basis of conscious perception. When the cerebral cortex is damaged antigravity effects take over. An antigravity force opposed to gravity in the universe has been described. Cerebellar lesions lead onto hypotonia, ataxia and a levitationary effect which can be considered as antigravity. Gravity structures the brain and can be considered to be a thought field which forms the basis of consciousness and creation of matter. Gravitational waves unite mind and matter and form the substratum of it. Gravity and light travel with the same speed as thought. Gravity can form the basis of human thought. Human thought fields according to Bohm underlies the sub-quantal potential from which all particles emanate.[8] Thought fields include gravitational waves which form consciousness and anti-gravitational waves which forms the unconscious brain.

The unconscious mind is localized in the cerebellum and brain stem. The cerebellum has got a cognitive function and disorders of cerebellum presents as cerebellar cognitive affective disorder. The cerebellar motor disorder presents as ataxia and has got an antigravity component. The cerebellum modulates the tone of the antigravity muscles. The cerebellum is responsible for learned motor programmes, robotic acts, magical acts, hypnotism, the paranormal, extrasensory perception and is involved in autism and schizophrenia. The cerebellum is the site for antigravity or dark energy localization in the brain. It is the site of the unconscious mind or the collective unconscious. This is in comparison to the cerebral cortex which is the site of conscious perception and localization of gravitational forces. Anatomical, physiological and functional neuroimaging studies suggest that the cerebellum participates in the organization of higher order function. Behavioural changes were present in patients with lesions involving the posterior lobe of the cerebellum and the vermis. These changes were characterized by impairment in executive functions, working memory, spatial cognition, affective behavior and language deficits. This is called the cerebellar cognitive affective disorders and is characterized by changes in the function of the unconscious brain.[8]

Actinidic archaea are extremophiles and can grow in extremes of temperature, space and hypergravity and antigravity situation.[1] Actinides have a role in abiogenesis.[2] This led to the plausibility of antigravity and hypergravity sensing brain actinidic archaea mediating consciousness and the unconscious brain. The actinidic archaea in the cerebellum can sense dark energy and dark matter just as it perceives gravity. This led to the possibility of exobiologic actinidic archaea which are paleospermic in origin contributing to the evolution of life on earth including homo sapien brain.[3]

The gravitational and anti-gravitational waves or thought fields are structured in the brain by the reticular formation actinidic archaeal network. The anti-gravitational waves can be thought of as the collective unconscious. The gravitational waves can thus function as a thought field or sub-quantal field on which the particles like neutrons, electrons, bosons, quarks, fermions can pop in and out from waves to particles. The thought field of gravity functions as the universal observer and brings the particulate world of matter into existence. Gravitational waves can form pressure waves which can create gravitational sounds. These thought sounds can undergo soni-luminescence creating photons and electromagnetic radiation the basis of the world of matter. Thus the thought field of gravity and the matter is unified. Thought conscious and unconscious underlies the world of matter.[9]

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