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डॉ. पद्मा आचार्य संपादक

## मानव व्यवहार पर तनाव का प्रभाव एवं प्रबंधन

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#### **NUTRITION AND MENTAL HEALTH**

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The word stress is defined by the Oxford dictionary as a state of affair involving demand on the physical or mental energy. A condition or circumstances stress is defined as perturbation of the body homeostatic this demand on mind body occurs when it tries to cope with incessant changes in life. A stress condition seems relative in nature, extreme stress condition are detrimental to human health but in moderation stress is normal and in many cases proves useful. Stress is nonetheless is synonymous with negative condition .today with the rapid diversification of human activity we come across with numerous causes of stress and the symptoms of stress and depression.

In a challenging situation, the brain prepares the body for defensive action the flight or fight response by releasing stress hormone namely carticosone and adrenaline, these hormones raised the blood pressure and the body prepares to react this situation, with a concrete defensive action flight response the stress hormone in the blood get used up entailing reduced stress effects and symptoms of anxiety.

When we fall to counter a stress situation flight response the hormones and chemicals remains unreleased in the blood stream for a long period of time .it results in stress related physical symptoms such as tensed muscles ,unfocused anxiety, dizziness and rapid heartbeats. We all encounter various stressors in everyday life which can accurate if not releases. Subsequently it compels the mind and body to be in an almost constant alarm state in preparation to fight or free. This state of accumulated stress can increase the risk of both acute and chronic psychosomatic illness and weaken the immune

of human body. nof human.

Stress can cause headaches irritable bowel syndrome eating Stress can insomnia backaches frequent cold and fatigue to allowed syndrome eating insomnia backaches frequent cold and fatigue to allowed syndrome eating insomnia backaches frequent cold and fatigue to allowed syndrome eating isorder allergies hypertension asthma diabetes hear ailments and iseases such as hypertension asthma diabetes hear ailments and

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WIRITION AND MENTAL FUNCTION and other limbs) in our body take their orders organs (and other limbs) in our body take their orders organs through an elaborate nervous system. the sense brain through an elaborate nervous system. Mental health becomes very important for maintenance the becomes very important for maintenance of physical perefore as important as the brain is the health of the herefore both As important as the brain is the health of the nerves that health and dictates the brain to the individual organization. pallin. The dictates the brain to the individual organ.

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# NEUROTRANSMITTERS

Considerable research has shown concentration of some of neurotransmitters in the brain are influenced by the diet. Neurotransmitters are the substances present in the neurons of mammals that, when released, will transmit signals across synapses to other neurons in the brain or to muscle cells or secretory cells outside the brain. Four primary amines are serotonin, dopamine, norepinephrine and acetylcholine, which are synthesised from amino acids. \*Dopamine and norepinephrine are synthesised from tyrosine and phenylalanine [phenylalanine is metabolized to tyrosine], serotonin is synthesised from choline.

Food consumption influences the levels of tyrosine, and choline and tryptophan in the brain, and the brain's synthesis of the neurotransmitters depends on the level of these precursors. However, the relationships are not direct, since insulin is involved in the control of serum levels of amino acids.

A high-protein meal increases brain tyrosine level and brain dopamine accumulation. It does not elevate the concentrations of brain tryptophan and serotonin. A high-carbohydrate or protein-free meal will increase the brain tryptophan level and thus the serotonin

level. A protein that contains high levels of choline, such as eggs or level. A protein that contraction of brain acetylcholine. An meat, will increase the concentration of brain acetylcholine. An meat, will increase in the level of brain neurotransmitters will be physiologically significant only if it is also correlated with a change in the amount of significant only in the synaptic clefts. Whether or not this occurs is still not known. However, concentrations of brain neurotransmitters are already being manipulated with clinical effect. For example, most authorities agree that drugs that block dopamine receptors are useful in treating psychoses, and drugs that stimulate these receptors are being used to treat Parkinson's disease. Drugs that increase brain norepinephrine levels in synapses have antidepressant effects. Tryptophan and choline themselves, as isolated proteins, and not as part of the diet, are also being used. This "precursor therapy" has been tried in treatment insomnia, depression, Huntington's chorea and tardive dyskinesia. Tryptophan at bedtime appears to be an effective agent. Perhaps drinking the traditional glass of hot milk [carbohydrate] increases the tryptophan level in the brain and is really a rather scientific practice.

The brain produces potent chemicals called the neurotransmitters, which are made of nutrients from food. As a general rule, neurotransmitters are produced from amino acids, which are the building blocks of the proteins in the foods that one eats. Some studies have shown that the manufacture and release of neurotransmitters in the body can be altered to some extent by certain foods, meaning that in theory, diet can affect the way one feels and behaves. Any specific cause and effect is difficult to define, as age, sex, some foods and medicines that one may be taking or familial factors can also affect the chemical reactions of the brain. An amino acid called tryptophan found in protein rich foods such as meat, milk and eggs, is a component of a soothing neurotransmitter called serotonin. Serotonin is needed far normal sleep, and some experts think that it may play a role in controlling certain types of depression. It

that meals rich in carbohydrates (sugars and claimed that meals rich in carbohydrates (sugars and been claimed to increase the levels of serotonin in the brain many help to increase the levels of serotonin in the levels of ser been claimed to increase the levels of serotonin in the brain making a help to increase the levels of serotonin in the brain making a specific calm and drowsy.

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person feel calm of nin-Deficiency of niacin causes changes in the entire personality. personality. peficiency strong, courageous and unafraid could become formerly suspicious and apprehensive. They become persons formion, and apprehensive. They become emotionally ownered and forgetful. If the deficiency is allowed to become per pecome emotionally and forgetful. If the deficiency is allowed to become more mental dullness, depression, hostility or suspiciopostable and local duliness, depression, hostility or suspicion may grow severe, in pellagra sufferers, these symptoms gradual suspicion may grow suspicion may grow interesting in pellagra sufferers, these symptoms gradually give way interesting violence, disorientation and delusions. Such pactual violence, disorientation and delusions. Such persons often hopelessly insane. Dr. Abraham 1-loffer was hopelessly insane. Dr. Abraham 1-loffer was the first to that massive amounts of niacin amide could help person fering from schizophrenia. The richest sources of niacin amide are yest. liver and wheat germ while kidneys, fish, muscle meats, eggs nuts supply sonic. A little niacin amide can be made in the body the amino acid tryptophan, but this supply is limited. Sources have been mentioned elsewhere in this section. Cholin is considered of the brain's major chemical messengers. The richest sources of cholin are liver, brain, kidneys, yeast, wheat germ and egg yolk.

Vitamin D aids the absorption of calcium, which is needed for relaxing nerves, inducing sound sleep and decreasing the sensitivity topain. Fish liver oil is a good source of vitamin D and sunshine is an excellent source of this vitamin. Vitamin E allows people to live longer on remarkably little oxygen, with fewer palpitations and for less oxygen states Adelle Davis. Similarly. athletes or trekkers in rarefied air have more and far greater endurance after taking vitamin E. Vitamin E capsules (200 units) taken after each meal, has proved to be a pain reliever and quick healer of burns. Thus deficiencies of vitamin E can lead to early onset of old age and in children can cause <sup>anemia</sup> along with other nutrient deficiencies. Vitamin E is found in all gams, nuts and seeds and also oils and wheat germ.

It is quite alarming to find that a few heavy metals have been implicated in brain damage. Aluminium is implicated in a variety of ways as a cause of Alzheimer's disease as it is associated with dementia. Though it is yet to be conclusively proved, aluminium has been found in patches in the brains of people with Alzheimer's disease. It is cautioned that aluminium vessels are not used for cooking acidic foods. It is also worthy of noting that silicon in the form of silisiliic acid

prevents the body from absorbing aluminium. Sources of silicon include alfalfa cabbage, lettuce. onions, dark green leafy vegetables and milk.

Nervous system is the most sensitive one to the effects of lead. Children and young adults are particularly vulnerable to cerebral involvement in lead poisoning. The three types of acute encephalopathy, convulsion, coma and delirium are the most serious manifestations, and arc irreversible. Risk increases with repeated exposure. Sub clinical and chronic encephalopathy result in slowness of performance, psychomotor disturbances, low intelligence and personality changes. Mercury is very poisonous and long-term exposure causes brain damage. Shellfish, which has an exceptional capacity for accumulating mercury and cadmium from contaminated waters in industrial areas, may contain dangerously high levels. In fish and shellfish rigorous standards and monitoring are needed to ensure no risk. Small amounts of lead can accumulate silently increasing the tissue concentrations to toxic levels. Prenatal exposure to even low levels of lead from mother is capable of producing adverse neuropsychological effects in the otherwise normal offspring. Children are three time more prone to lead toxicity as compared to adults because they tend to absorb lead in higher amounts. In adults, the lead poisoning pronounces itself with abdominal pain, fatigue, muscular pain and neuralgia. Studio on lead suggest that 6-18% of the oral lead intake appears in the blood. Long-term exposure to lead through

्रवाव एवं प्रवेधन and lead pencils has been linked with behavioural pollution and learning ability among children. policular policular poor learning ability among children.

problems and poor learning ability among children.

stress affects the body, mind, feelings and behaviors leading stress and behaviors leading stress stress and behaviors leading to poor concentration, vague anxiety, fears for no apparent reason, to poor concentration of irritability followed by depression and letharacconcentrations are quickly used poor concernitions followed by depression and lethargy. Certain popole of irritability followed by under stressed conditions and periods are used up more quickly under stressed conditions. nutrients are needed for a healthy central nervous system and remains are needed for a healthy central nervous system and remains are needed for a healthy central nervous system and the inference of the inferen nutrients are needed for a healthy central nervous system and vitamin vitamins are needed to infection. These extra require vitamins are resistance to infection. These extra requirements can cand zinc for resistance plenty of B vitamins, to release containing met by eating plenty of B. Cand zinc 101 105 eating plenty of B vitamins, to release energy and to easily be met by eating nervous system. Green least easily be missed central nervous system. Green leafy vegetables, maintain a healthy central germ, whole grain cercalmaintain a most fruits, wheat germ, whole grain cereals, eggs, dairy potatoes, veast extract, seafood, lean meat liver was extract. potatoes, yeast extract, seafood, lean meat, liver, kidney, poultry, products, beans and lentils) nuts, seeds and door. products, houney, poultry, beans and lentils) nuts, seeds and dry fruits are good pulses (peas, beans Pantothenic acid is Association pulses (Poss) runs are good sources of B vitamins. Pantothenic acid is especially important in sources stimulate feelings of anxioty with sources of stress, stimulate feelings of anxiety, while vitamin C helps preventing stress, stimulate feelings would be a stress of the stress the body to resist infection and aids wound healing, It is found in fresh the pour truits, especially citrus and black currants, fruit juices and fresh rulls, vegetables. Zinc is also needed for resistance to infection and wound healing and is found in liver and red meat, egg yolk, dairy products, whole grain cereals and seafood, particularly oysters and other shellfish. Complex carbohydrate boosts energy and calms the mind. Legumes, pulses, cereals, oats, and potatoes are all good sources of energy. Small frequent meals (at least every 3 hours) peaceful meal time, no rushed meals, relaxed mood at meal times and joyous meal are important to combat stress. Excessive amount of tea and coffee rather than calming stress. Smoking and alcohol are enemies as they deprive the body of valuable nutrients. Long term use of alcohol leads to depression.

Some of the foods that help to regulate the mood of a person are as follows: