

DIVYAJYOT AYURVEDIC RESEARCH FOUNDATION

(An NGO engaged in the Cancer Cure and other complicated diseases with Ayurveda since 1978.)

Daradi Narayana Seva Mandir, Opp. Municipal Garden, Ahmedabad, Gujarat (INDIA)

A random Clinical trial of Ayurvedic Health Drink

MONETA WELLNESS NONI ©

to assess its role in improving the Quality of Life (QOL) of Cancer patients

Chief Investigator : H.H.P.P. Ma. Anantatirthji *

Devotee : Vaidya Tapankumar M.D.(Ayu.) ** (For Correspondance)

ABSTRACT: Cancer is one of the most challenging disorders of recent era world over. It is very complicated as the complexity is at every level of Anatomy, Physiology, Biochemistry, Molecular Biology, & Gene Expression. So treating such disease is a big challenge. Many therapies like Surgery, Radiotherapy, Chemotherapy, MDT, Hormone Therapy, Blood Transfusion etc. are being tried to treat cancer. But unfortunately with all conventional therapeutics overall 2.4% survival is there for 5 years after diagnosis. Reasons may be manylike resistance, difficulty in targeting the specific disease area and additionally, toxicity of the drugs, Ablative Surgery, Radiation Damage and Chemotherapy Hazards.

In that case Ayurveda has a lot to offer. Various Ayurveda herbs can be helpful to treat the cancer many ways. A random Clinical trial of Ayurvedic Health Drink Moneta Wellness Noni ©-(a poly herbal formulation) was conducted on 32 patients of various types of cancer to assess its role in improving the Quality of Life (QOL) of Cancer patients and its effect on general condition and symptoms of cancer, and to evaluate the effect of Moneta Wellness Noni © on various liver functions, kidney functions and complete blood count. Assessing the effect and the basis of the conclusion it can be summarized that Moneta Wellness Noni © has a distinctly positive role in providing health, ease and relaxation to the cancer patients. It also improves liver functions and renal functions. No serious side effects were observed.

KEY WORDS: Cancer, Quality of Life, **Moneta Wellness Noni ©**

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INTRODUCTION

The popular television channel “Discovery” is broadcasting now a days a program called “Man Made Marvels”. The program contains mega structures, buildings, railways, bridges, sky scrapers, etc. In the same connection it can be said that below written 3 “Cs” are Man Made Disasters.

.Coronary Artery Diseases

1. Car Accidents
2. Cancer

All these three are a mankind generated lifestyle disasters. We at “Divyajyot Ayurveda Research Foundation” have concentrated upon finding a comprehensive & patient friendly cure of Cancer with the help of Ayurveda Since 1978 with documented **patients over 20000**.

In the pursue of screening out a comprehensive cure, we have formulated & tried out poly herbominaral formulation as well as welcomed other authentic poly herbominaral formulation designed by other health authorities in Ayurveda.

Because of a very good running flow of the patients and their faith in Ayurveda formulations we have been from time to time screening out newly introduced herbal formulations from various reputed pharma houses.

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Most of the patients of cancer after being diagnosed as cancer loose their stamina, luster, working capacity, zeal and zest. The stress that a cancer patient faces in his life is more than any other disaster in his life. This stress when combines with cancer like irreversible anomaly it breaks down and hampers the desired effect of actual anticancer Ayurveda therapy. Recently **Benmoon Pharma Research Pvt. Ltd.** has introduced their new product **Moneta Wellness Noni ©** after extensive pilot research. The Pharma house claims very tall and enthusiastic response of the product and requested DARF to conduct a cancer study which may be instrumental in matching the studies.

Some comparison also can be carried out with the same product and some study can be carried out other than DARF. As per the available literature and research information research council of DARF have confirmed the product as health supplement to therapeutic agent and have sanctioned a short term preliminary observatory clinical study to be carried out on the patients of cancer on OPD/IPD level.

AIMS & OBJECTS:

MONETA WELLNESS NONI © was evaluated on different cancer patients with the following objects.

1. To screen out the role of Moneta wellness Noni © in improving the Quality of Life (QOL) of Cancer patients

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2. To screen out the role of Moneta Wellness Noni © on general condition and symptoms of cancer.
3. To evaluate the effect of Moneta Wellness Noni © on various liver functions, kidney functions and complete blood count.
4. To observe the effect of Moneta Wellness Noni © on altered tumor marks on various cancer patients.

MATERIAL AND METHODS:

Material:

All diagnostic tools regarding Ayurveda as well as modern investigations & periodic repetitions of the same were the basic material of the study.

Patients registered at OPD of DARF irrespective of age, sex, caste & creed were considered as sample material.

Methods:

- ❖ Patients registered at DARF were completely interrogated & investigated both on Ayurvedic as well as Modern Western Scientific Parameters. The results were documented **as before treatment assessment.**
- ❖ After confirmed diagnosis of Malignancy by Biopsy and other confirmatory parameters, patients were put on **Moneta Wellness Noni ©** therapy in the dose and pattern described as under for **three months duration.**
- ❖ Every fort nightly necessary routine investigations were carried out and documented to supervise any untoward or dramatic effect.

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- ❖ At the end of the third month all necessary investigations were repeated and results were documented **as after treatment assessment.**
- ❖ Complete clinical interrogation and examinations carries out after three months and observations documented.

DRUG UNDER TRIAL:

The Moneta Wellness Noni © introduced by Benmoon pharma research Pvt. Ltd. was selected for the study. Moneta Wellness Noni © is a Rejuvenate and helps to prevent the body against the vitiation of all three Doshas i.e. Vat, Pitta and Kapha. Regular intake of Moneta Wellness Noni © with Sona Chandi strengthens digestion, absorption and assimilation of food.

Moneta Wellness Noni © with Sona Chandi is also beneficial to the heart and the brain cells. It is considered a memory booster. It also works as an antioxidant, thus slowing down the ageing process. It is believed that Moneta Wellness Noni © with Sona Chandi purifies blood, eliminates toxins and is beneficial to liver. It is also said to fight bacterial skin infections and improve complexion. It eases constipation. It also improves muscle tone by enhancing protein synthesis. It is especially beneficial for cough and asthma patients. It enhances fertility and keeps menstruation regular.

IN NUTSHELL, MONETA WELLNESS NONI ©.....

➤ Helps to combat chronic

➤ Reduces Inflammation

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fatigue and Restores Energy	
➤ Releases Stress, Helps to control mood swings,	➤ Helps to control the post surgical anger and frustrations
➤ Stimulates Immune System	➤ Improves Digestion
➤ Enhances well being	➤ Helps to Relieve Muscle stiffness, joint pain, general aches and pains,
➤ Helps to grow shiny hair faster,	➤ Also helps to revive skin tone, texture, and even color.
➤ Also helps to repair the "chemo brain effect"	➤ Checks the hot flashes,
➤ Rejuvenates the Body	➤ Helps to minimize the risk of heart problems

So it may be assumed that it can help the cancer patients to improve the Quality of Life.

DRUG REVIEW:

Moneta Wellness Noni © contains time tested Ayurveda herbs like Achyuta, Amrita, Dhatri, Brahmi, Withania Somnifera, Tribulus Terrestris, and Garcinia Combojia; and essential elements like Suvarna Bhasma and Rajat Bhasma. The properties of these drugs according to Ayurveda Dravyaguna Viganan can be tabulated as follows:

N o.	Ingredien t	Rasa	Guna	Veer ya	Vipak a	Prabh ava
1	Noni,	Amla	Laghu,	Shee	Amla	Rasaya

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	Achyuta		Snigdha	t		n
2	Amruta	Madhura	Guru, Snigdha	Ushn a	Madh ura	Rasaya n
3	Dhatri	Pancharasa (Lavana Varjita)	Guru, Ruksha, Sheeta	Shee ta	Madh ura	Rasaya n
4	Brahmi	Tikta,Kashaya	Laghu	Shee ta	Madh ura	Medya
5	Withania Somnifera	Tikta,Katu,Madhur a	Laghu, Snigdha	Ushn a	Madh ura	Balya
6	Tribulus Terrestris	Madhura	Guru, Snigdha	Shee ta	Madh ura	Vrushy a
7	Garcinia Combojia	Madhura,Amla	Laghu, Ruksha	Ushn a	Amla	Medoh ara
8	Suvarna Bhasma	Madhura	Guru, Snigdha	Shee ta	Madh ura	Rasaya n
9	Rajat Bhasma	Kashaya Amla	Guru, Snigdha	Shee ta	Madh ura	Medya

DRUG DETAILS:

NONI (ACHYUTA)

Morinda citrifolia, commonly known as Great morinda, Indian mulberry, Noni (from Hawaiian), Nono (in Tahiti), and Ach, Aal (in Hindi), is a tree of the Rubiaceae family. Morinda Citrifolia is native to Southeast Asia but has been extensively spread by man throughout India and into the Pacific islands as far as the French Polynesian Islands prominent in Tahiti Nui.

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Over 2,000 years ago, the inhabitants of what is now known as the Polynesian Islands domesticated the Noni tree.

History of Noni:

Noni fruit is consumed by Indians since centuries. It is also mentioned in the classics of Ayurveda. Knowledge of Noni's healthful benefits has been passed from parents to children for countless generations in the South Pacific and Southeast Asia. Families used the noni fruit both internally and externally for its innumerable benefits. Thousands of years ago, sea-going people journeyed in great outrigger canoes to settle what is now known as French Polynesia. Space in the canoes was precious; they brought only what they needed to survive. *Morinda citrifolia* (noni) was prized cargo in these canoes because of its healthful properties. Indeed it was considered queen of the 'canoe plants' used to establish the new villages.

Though Noni was widely used and cherished in French Polynesia, its marvelous secrets remained unknown to the rest of the world for thousands of years.

Then, in the twentieth century, ethno-botanists interested in the methods of native healers began to study this remarkable fruit. Even the United States military, during World War II, studied the usability and benefits of the Noni plant, which were included in the Military Field Handbook for Survival.

Noni fruit has gained worldwide notoriety in recent years for its health benefits. Noni fruit is packed with nutrients – some well known, others more mysterious – that can help you to live a healthier, longer life. Several animal studies have shown that Noni fruit can help to reduce tumors, enhance the immune system, and relieve pain.

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Botanical description:

The tree grows up to 30 feet tall in a large variety of habitats: volcanic terrains, lava-strewn coasts, clearings, and limestone crops. Its resiliency has allowed it to spread from its native Southeast Asia to neighboring India and the Pacific Islands, and as far as New Zealand, Australia, and South America. Its leaves are large, dark green, shiny, and deeply veined. Its small white flowers give rise to fruit that is bright green when young, and yellow or white when ripe.

Noni grows in shady forests as well as on open rocky or sandy shores. It is tolerant of saline soils, drought conditions, and secondary soils. It is therefore found in a wide variety of habitats: volcanic terrains, lava-strewn coasts, and clearings or limestone outcrops. It can grow up to 9 m tall, and has large, simple, dark green, shiny and deeply veined leaves.

The plant bears flowers and fruits all year round. The flowers are small and white. The fruit is a multiple fruit that has a pungent odor when ripening, and is hence also known as cheese fruit or even vomit fruit. It is oval and reaches 4-7 cm in size. At first green, the fruit turns yellow then almost white as it ripens. It contains many seeds. Despite its strong smell and taste, the fruit is nevertheless eaten as a famine food and, in some Pacific islands, even a staple food, either raw or cooked. Southeast Asians and Australian Aborigines consume the fruit raw with salt or cook it with curry. The seeds are edible when roasted.

The Noni is especially attractive to weaver ants, which make nests out of the leaves of the tree. These ants protect the plant from some plant-

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parasitic insects. The smell of the fruit also attracts fruit bats, which aid in dispersing the seeds.

CHEMICAL COMPOSITION:

Noni contains.....

- ❖ Noni is rich in Vitamins A, B, B2, B6, B12, C, and E.
- ❖ It also contains essential trace elements like Calcium, Iron, Niacin, Folic Acid, Pantothenic Acid, Phosphorus, Magnesium, Zinc, Copper and other minerals like Chromium, Manganese, Molybdenum, Sodium, and Potassium.
- ❖ It is rich with Carbo-hydrates and 140 + isolated Nutraceutical.
- ❖ In addition, Noni has many different ingredients that are high in antioxidant activities. Eight in particular are: arginine, tannins, lignans, quercetin, phytosterols, terpenes, glutamine, and nucleotides.

Approximately 100gms of Noni fruit contains:

Vitamins

Vitamin C	25 mg
Vitamin B1	0.01 mg
Vitamin B2	0.01 mg
Vitamin B6	0.13 mg
Vitamin B12	0.3 mcg
Folic acid	25 mcg
Biotin	5 mcg
Niacin	0.5 mg

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Pantothenic acid	0.5 mg
Vitamin E	1 IU
Vitamin A activity	
Beta Carotene	22 IU
Carotene	22 IU
Alpha Carotene	7 IU
Trans Beta Carotene	7 IU
Cis-Beta Carotene	7 IU

Minerals

Calcium	25 mg
Iron	0.3 mg
Phosphorus	7 mg
Magnesium	12 mg
Molybdenum	1 mg
Sodium	40 mg
Potassium	150 mg

Amino acids

Aspartic acid	77 mg
Threonine	11 mg
Serine	12 mg
Glutamic acid	44 mg
Proline	33 mg
Glycine	22 mg
Alanine	33 mg

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Cystine	11 mg
Valine	22 mg
Methionine	4 mg
Isoleucine	11 mg
Leucine	22 mg
Tyrosine	11 mg
Phenylalanine	8 mg
Histidine	6 mg
Lisine	11 mg
Arginine	44 mg
Tryptophan	3 mg

Documented or probable effects of active compounds

Polysaccharides (glucuronic acid; galactose; arabinose; rhamose; glycosides; trisaccharide fatty acid ester)

Immuno-stimulatory; immuno-modulatory; anti-bacterial; anti-tumor; anti-cancer.

Alkaloids (xeronine):

Xeronine enhances enzyme activity and protein structure

Scopoletin

Dilates vasculature & lowers blood pressure; anti-bacterial & anti-fungal; Anti-inflammatory; analgesic; histamine-inhibiting; arthritic conditions; allergies; sleep disorders; migraine, headaches; depression; Alzheimer's disease.

Vitamins and Minerals: magnesium; iron; potassium; selenium; zinc; copper; sulfur; ascorbic acid (vitamin C).

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Etc. plays vital role to maintain the equilibrium of the normal status of the body through their various functions and effects.

Anthraquinones (damnacanthal)

Antiseptic & antibacterial effects in digestive tract (Staphylococcus, Shingela, Salmonella).

Glycosides (flavonol glycoside; iridoid glycoside, "citrifolinoside")

Anti-cancer effects: (DPPH free radical scavenging activity; inhibition of UVB-induced Activator Protein-1 activity in cell cultures.

NONI FOLK USES, CLINICAL PRACTICE AND RECENT SCIENTIFIC STUDIES:

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Noni is still used by the local population in Hawaii for sugar control diseases, high vascular pressure, heart health maintenance, abnormal growths, and other chronic disorders, although no controlled clinical studies exist to support these uses. Based on clinical practice and animal studies, a polysaccharide-rich substance from noni fruit juice attacks abnormal cells in several different ways.

Immunostimulatory Effects

Noni fruit juice seems to act indirectly against abnormal growths, primarily through immunostimulatory effects. Animal studies found that adding 10% noni fruit juice to drinking water for one week significantly reduced DNA adduct formation in rodents. DNA adducts change the shape of DNA and initiate the formation of abnormal cells (i.e. chemicals in cigarette smoke are known to cause DNA adducts thereby initiating lung abnormal growths in smokers).

All parts of the tree are useful as food, medicine, and dye. It is used to treat many maladies, including constipation, diarrhea, skin inflammation, infection, mouth sores, fever, contusions, and sprains.

Different cultures have used noni fruit different ways. For example, the Chinese have used it for the digestive system, kidneys, heart, and liver. While in Samoa, Japan and Tahiti, various parts of the tree (leaves, flowers, fruits, bark) serve as tonics and to contain fever, to treat eye and skin problems, gum and throat problems as well as constipation, stomach pain, or respiratory difficulties.

In Malaysia, heated noni leaves applied to the chest are believed to relieve coughs, nausea or colic. In the Philippines, juice is extracted from the leaves as a treatment for arthritis.

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The noni fruit is taken, in Indochina especially, for asthma, lumbago and dysentery. As for external uses, unripe fruits can be pounded, then mixed with salt and applied to cut or broken bones.

In Hawaii, ripe fruits are applied to draw out pus from an infected boil. The green fruit, leaves and the root/rhizome have traditionally been used to treat menstrual cramps and irregularities, among other symptoms, while the root has also been used to treat urinary difficulties.

The bark of the great morinda produces a brownish-purplish dye for batik making; on the Indonesian island of Java, the trees are cultivated for this purpose.

In Hawaii, yellowish dye is extracted from its root in order to dye cloth. In Surinam and different other countries, the tree serves as a wind-break, as support for vines and as shade trees for coffee bushes.

The fruit is used as a shampoo in Malaysia, where it is said to be helpful against head lice.

Today, noni fruit is available in a wide variety of formats, including juices, powders, capsules, even soaps and shampoos. Used in conjunction with modern medicine, the noni fruit can be a valuable health supplement.

CURRENT NONI RESEARCH

Scientists are investigating various activities of Noni including anti tumor activity, immuno-modulation, anti oxidant, antibacterial, antifungal, and antiparasitic properties. Researchers are also investigating the toxicological, anti allergy effect of Noni. Dr. Ralph Heinicke and Afa Palu are working on the extraction and structure of Proxeronine and Xeronine. Dr. Anne Hirazumi Kim is doing follow-up work on noni and its effect on

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Lewis lung carcinoma cells. Dr. Mian-Ying Wang is working on the first human clinical trial involving Noni Juice at the University of Illinois, Rockford. The study is on the "Chemopreventative Effect of Noni in Human Smokers." Dr E. Furusawa at the University of Hawaii has researched the effect of Noni and chemotherapy drugs on the sarcoma 180 line of cancer cells.

Potent Antioxidant Activity

Noni juice also has potent antioxidant activity. Researchers conclude that noni juice could be used in clinical applications as a supplemental agent to reduce side-effects and improve chemotherapy. In animal studies, noni juice treatments prolonged the life span of mice by more than 75%.

AMRUTA: TINOSPORA CORDIFOLIA:

Tinospora is a wonder drug, which Balances vitiated Tridoshas, Cures skin diseases and relieves pain. It is a constituent of several compound preparations. Reduces fever, also acts as aphrodisiac. Rejuvenates body systems, It is an Ant periodic, Alterative, Diuretic, and Anti-inflammatory. It is used in urinary disorders, dyspepsia, general debility and urinary diseases. It is also used in treatment of rheumatism and jaundice.

CHIEF CHEMICAL CONSTITUENTS: Tanins, Giloin, berberin, starch, etc.

Traditional Ayurvedic Uses:

It is considered as the best herb for clearing the microcirculatory system and other bodily channels (Shrotas). It is especially effective and unique in its ability to remove both exogenous and endogenous toxins (from external and internal sources). Therefore it is very often included in comprehensive Ayurvedic formulas, since such toxins interfere with all

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** Devotee and Medical Director DARF.

DIVYAJYOT AYURVEDIC RESEARCH FOUNDATION

(An NGO engaged in the Cancer Cure and other complicated diseases with Ayurveda since 1978.)

Daradi Narayana Seva Mandir, Opp. Municipal Garden, Ahmedabad, Gujarat (INDIA)

A random Clinical trial of Ayurvedic Health Drink

MONETA WELLNESS NONI ©

to assess its role in improving the Quality of Life (QOL) of Cancer patients

Chief Investigator : H.H.P.P. Ma. Anantatirthji *

Devotee : Vaidya Tapankumar M.D.(Ayu.) ** (For Correspondance)

bodily functions and are a factor in almost all diseases. It clears out brain toxins that hinder mental activity.

It is mentioned as Medhya Rasayana, which means that it enhances all aspects of mind power, including comprehension (Dhi), memory (Dhriti) and recollection (Smriti). It also aids all other aspects of healthy metabolism (the 13 Agnis). It aids digestion, assimilation and proper formation of all the bodily tissues (7 Dhatus).

It helps balance liver function and aids proper assimilation. It aids purification of the urinary tract and intestines, by balancing lubrication (Shleshaka Kapha) and the downward energy of the body (Apana Vata). By supporting proper function of Shleshaka Kapha, it also aids proper communication and coordination between all the various cells and their many related functions for better overall health. This has the added benefit of nourishing the mind-body connection and enhances the psychoneuro immune response (called the PNI).

Probably it is one of the best Rasayana (longevity enhancer), but especially when combined with complementary herbs. It increases the quality and quantity of Ojas, the master coordinator between mind and body. It helps consciousness slide into the physiology and aids development of full potential.

It has a Keshya effect, which means that it directly nourishes the hair for better quality and strength.

Tinospora is one of the most popular amongst the scientist world over. More than 100 research papers are available in American national health library i.e. Pubmed.

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DHATRI:

Dhatri i.e. Embelica officinale is highly nutritious and is an important dietary source of Vitamin C, minerals and amino acids. It is one of the most promising drug for cancer management. It has various proven properties including anti tumor activity. It is useful in hemorrhage, diarrhea and dysentery. In combination with iron, it is used as a remedy for anemia, jaundice and dyspepsia. It has very important property of anabolic, anti-bacterial and resistance building. it possess expectorant, cardiogenic, antipyretic, antioxidative, antiviral and anti-emetic activities too.

The fruits are contains significantly high amounts of ascorbic acid (vitamin C), upwards of 3.25% in the dried fruit. (Khopde et al 2001; Yoganarasimhan 2000, 410; Bhattacharya 1999; Summanen 1999; Ghosal et al 1996).

The fruit also contains considerably higher concentration of most minerals and amino acids than apples. Glutamic acid, proline, aspartic acid, alanine, and lysine are 29.6, 14.6, 8.1, 5.4 and 5.3% respectively of the total amino acids. The pulpy portion of fruit, dried at 100- and freed from the nuts contains: Gallic acid 1.32%, tannin, sugar 36.10%; gum 13.75%; albumin 13.08%; crude cellulose 17.08%; mineral matter 4.12% and moisture 3.83%. Embelica officinale fruit ash contains chromium, 2.5 ; zinc, 4; and copper, 3 ppm. Presence of chromium is of therapeutic value in diabetes. Fruit also contains phyllembelin and curcuminoides. The fruit contained 482.14 units of superoxide dismutase/g fresh weight, and exhibited antisenescence activity.

According to Ayurveda it is ...

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Astringent	Cardiac tonic	Diuretic, laxative	Liver tonic
Refrigerant	Stomachic	Restorative	Alterative
General tonic	Aphrodisiac	Anti-pyretic	Hair tonic
Nerving-brain tonic	Anti dermatitis	Anti-inflammatory	Digestive

It is recommended as choice of drug in many diseases/conditions as follows:

Anemia	Hyper-acidity	Peptic ulcer	Dyspepsia
Anorexia	Diarrhoea	Dysentery	Haemorrhage
Eyes inflammation	Urine anomalies	Leucorrhoea	Spermatorrhoea
Epistaxis	Menorrhagia	DUB	Jaundice
Memory loss	Nervine debility	Edema	Liver complaints
Cough	Asthma	Pthisis	Diabetes

Latest reseaches have also proven its various activities including anti cancer, anti tumor, anti-oxidant and anti hypercholestremic activities.

Antioxidant:

- Like many of the Rasayana botanicals, *P. emblica* displays pronounced adaptogenic properties, and has been shown to be active in vivo against free radical damage induced during stress (Rege 1999).
- Although *P. emblica* is stated as one of the highest naturally occurring sources of vitamin C (Katiyar 1997, 178), its antioxidant properties have also been attributed to the tannoid complexes (emblicanin A [37%], emblicanin B [33%], punigluconin [12%] and pedunculagin [14%] (Bhattacharya 1999). Overall, the antioxidant

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effect of Dhatri is significantly greater than that of vitamin C alone (Khopde et al 2001).

Immunomodulator:

- *P. emblica* has been found to enhance natural killer cell activity and antibody dependent cytotoxicity in tumor bearing mice, enhancing lifespan to 35% beyond the control animals (Suresh and Vasudevan 1994).
- An aqueous extract of *P. emblica* has been shown to significantly reduce the cytotoxic effects of sodium arsenite when administered orally in experimental animals (Biswas 1999)

Anti Cancer:

- Nandi et al. report that the supplementation *P. emblica* to mice in vivo significantly reduced the cytotoxic effects of a known carcinogen, 3,4-benzo(a)pyrene, in much smaller doses than the carcinogen (1997).
- When an aqueous extract of *P. emblica* is administered prior to radiation treatment, it has been found to have a protective effect upon radiation induced chromosomal damage (Yadav 1987).

Cardiovascular:

- The lipid lowering and antiatherosclerotic effects of *P. emblica* fresh juice, given in doses equal to 5 mL/kg over a 60 day period, was evaluated in cholesterol-fed rabbits.
- Serum cholesterol, triglycerides, phospholipid and LDL levels were lowered by 82%, 66%, 77% and 90%, respectively.
- Tissue lipid levels showed a significant reduction following *P. emblica* juice administration, with the regression of aortic plaques

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and increased excretion of cholesterol and phospholipids, compared to controls (Mathur et al 1996).

WITHANIA SOMNIFERA

Withania is one of the most promising drug for cancer treatment due to its various activities. Many researches worldwide including Gujarat Ayurveda University withania somnifera has been found very useful as adjuvant along with chemotherapy or radio therapy.

It contains Withaferin, Withanolides, Withanine, sitoindosides, Somniferine, Alkaloids and Ethanolides. Withanolides are believed to account for the multiple medicinal application of WITHANIA SOMNIFERA. It stimulates the activation of immune system cells such a lymphocytes. It inhibits inflammation and improves memory. Taken together, these actions support the traditional reputation of Withania as a tonic or adaptogen.

Action (pharmacology): It contains many activities such as tonic, nervine, sedative, nerve restorative, adaptogen, aphrodisiac, anti-tumor, anti-inflammatory, antioxidant, immunomodulator, free radical scavenger, anti-stress, rejuvenate, hypotensive, antispasmodic, antiarthritic. It is called Rasayana, which means powerful rejuvenator in Ayurvedic terminology. It increases hemoglobin (red blood count) and hair melanin.

Indications:

Stress, general debility, depression & moodiness, aging, fatigue (temporary and chronic), anxiety, depressed immunity, sexual debility in males, infertility, memory loss, hormonal imbalances, weakness during pregnancy, stress induced disorders, rheumatic disorder, anxiety neurosis, wounds and ulcers, weakness due to prolonged illness, loss of body heat,

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lactation, bone weakness and premature aging. It is useful for patients taking cancer chemotherapy and radio sensitization as it has Anti-tumor, anticancer, properties, it increases physical endurance, antioxidant due to anti-stress and immuno-modulator.

Immune booster:

It has been found that Withania increases the number of immune cells known as T cells and B cells helping to fight infections. All these actions directly oppose the effects of stress. It increases red blood cell counts, improves hemoglobin level, increases endurance and stamina and increases lean weight.

Antioxidant properties

Researchers from Banaras Hindu University in Varanasi, India, have discovered that some of the chemicals within Withania are powerful antioxidants. They tested these compounds for their effects on rat brain and found an increase in the levels of three natural antioxidants — superoxide dismutase, catalase and glutathione peroxidase. They say, "These findings are consistent with the therapeutic use of Withania as an Ayurvedic Rasayana (health promoter). The antioxidant property of active principles of Withania root may explain, at least in part, the reported anti-stress, cognition-facilitating, anti-inflammatory and anti-aging effects produced by them in experimental animals, and in clinical situations."

Anti tumor activity:

The plant's cancer fighting potential has been a subject of intense research. Selected doses of Withaferin A have inhibited tumor growth and increased survival in laboratory mice. Rodent studies have also shown that extracts of Withania can counter inflammation.

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Effect on insomnia:

Withania is effective for insomnia but does not act as a sedative. It's rejuvenating and nervine properties produce energy which in turn helps the body to settle and sleep. Thus it helps the body to address a stress related condition rather than masking it with sedatives. An herb that rejuvenates the nervous system erases insomnia and eases stress.

Anti-stress:

Withania directly opposes the reaction of stress by reducing the amount of Cortisol released by the adrenal glands of our body. Long term production of Cortisol has adverse effect on our health like: High Blood pressure, Stomach Ulcers, Immune depression and Insomnia, whilst having an anabolic, bodybuilding, restorative and aphrodisiac effect. Withania is an anti exhaustion, rejuvenating, and aphrodisiac agent. The alkaloids in Withania have been shown to be sedative and to lower the blood pressure.

Other properties: Adaptogenic properties help to improve heart function, breathing rate and physical endurance. Withania strengthens and gives more flexibility to the heart muscles, for instance, and is also useful for treating uterine and menstrual conditions involving the muscles, such as menstrual cramps.

People with arthritis and rheumatism have found that taking Withania decreases their stiffness and pain, allowing them to be active and move around more easily.

Withania enhances sexual performance and lowers cholesterol levels.

It prevents stress related gastrointestinal ulcers, increases physical endurance and prevents the depletion of vitamin C and Cortisol. It

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improves aging parameter such as greying hair, calcium level and increased libido & sexual function.

TRIBULUS TERRESTRIS:

According to Ayurveda it is a well known Rasayan drug (A.H.U39/56-57). It is one of the key ingredients of very famous Ayurveda formulation Rasayana churna. It enhances Bala of the patients and establishes good quality dhatu and brings normalcy in Dhatu metabolism. By virtue of its adaptogenic property the incidence of recurrence can be prevented.

According to Ayurveda it has various actions like Rasayana, Basti shodhana, Rasayana, Agni vardhaka, Vrishya, Vedanasthapana, Balya, Brihana, Pustikara etc.

Chemical composition:

As the herb Tribulus contains natural steroidal contents like alkaloids, resins, tannins, sugars, sterols, essential oil, peroxides, diastase, and glycoside. saponins, and flavanoids, and its protodioscins naturally increases the level of Luteinizing hormone levels (LH) thereby improves the manufacture of testosterone in the body - a level of up to 30% is claimed. Also supports healthy blood pressure and healthy cholesterol profiles.

According to latest research works, the drug is proved to be aphrodisiac, adaptogenic and anti inflammatory and is a nervine tonic. (Major Medicinal Plants of India 1989).

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People from around the world have used the Tribulus plant to boost moods, promote overall health, support healthy libido function and increase muscle tone.

In bodybuilding, Tribulus is used for its testosterone boosting properties more than anything else. Studies have shown over 50% increase in testosterone levels when taking Tribulus Terrestris. We all know testosterone helps build muscle and strength, that's why some pro-athletes use steroids and other prohormones to enhance performance.

GARCENIA COMBOGIA is

Anti-Scorbutic,

Astringent,

Cardio Tonic,

Stomachic,

Carminative,

Cholagogue,

Cooling,

Demulcent And

Emollient.

It Is Used In

Heart Disease,

Skin Diseases,

Dyspepsia,

Anorexia,

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Colic,

Piles,

Thirst And

Ulcers.

It is also useful in

Dysentery,

Bilious Affections,

Tumors,

Pains And

Heart Complaints.

DRAKSHA

The fruits are

Demulcent,

Cooling,

Sweet,

Laxative,

Astringent,

Digestive,

Stomachic,

Expectorant,

Blood Purifier,

Blood Enricher

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It Is Useful In

Thirst,

Heat Of Body,

Cough,

Hoarseness,

Constipation,

Wasting Diseases,

Throat Affections,

Consumption And

General Debility.

It is good for lungs, heart, liver and kidney

GOLD

Gold is used as a medicine since Atharva Veda. It is an Indian tradition that the first drug to administer even to a newborn baby is gold. Suvarna Prashanam is first Samskar after the birth of a baby. It proves that gold is equally important as mother's milk even to a newborn baby. It is due to various medicinal property of gold.

In Ayurveda, Suvarna i.e. Gold is also called as one of the best Vaajikaran (aphrodisiac), Vrushya and Rasayan (anti-ageing) drugs.

Susruta Samhitā also has described the properties of Swarna as...

Tridosahara, (balances the Vayu, Pitta & Kapha), Brihaniya, (strengthens muscles), Chaksushya, (improves eye sight), Rasāyana, (anti ageing, Immuno modulation, adaptogenic), Hridya (cardiotonic).

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Latest research shows that Gold salts are very effective on diseases like breast cancer, rheumatoid arthritis and daily infections.

SILVER

Silver has benefited mankind's health for thousands of years. In ancient Greece and Rome people used silver to keep liquids fresh. American settlers traveling across the West put a silver dollar in milk to delay its spoiling. The term "blue blood" came from the fact that the rich folk did not get sick as often as the commoners did. Many health historians say this was the case because the rich ate from real silver ware and drank from real silver containers, while the commoners ate from clay and wood utensils. Silver was put into most babies' eyes at birth to kill the germs, which caused infant blindness. Silver was the treatment of the day back at the turn of the century, and even today a silver compound, silver sulfadiazine (Silvadene) is used in most of the major burn centers in the United States because of its capabilities to fight infection so effectively. Silver is highly valued as a rejuvenator for the brain and nervous system. It is a very powerful natural antibiotic too. It has been used for thousands of years in its less effective solid form. But in recent decades it has been used in its colloidal form. It is connected with body's natural defense system. When body has enough silver, it's like having a second immune system. It is prescribed as an anti-stress and intellect promoting drug in Ayurveda since last 3000 years. It improves intellect, consolidates memory power Improves IQ, Induces alertness.

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CLINICAL STUDY:

DARF (Divyajyot Ayurvedic Research Foundation) in the quest of designing a comprehensive cancer cure with the help of Ayurveda, Spirituality and all such linked alternative therapies have conducted various research clinical trials in the past and presently also conducting research projects of PhD scholars.

Speaking to Moneta Wellness Noni © the pilot observatory clinical trial was designed with the underwritten criteria suggested by research council of **DARF**

: MATERIAL & METHODS:

TREATMENT PROTOCOL:

Posology:

DOSE:

DAY 1, 2, 3

5 ml. Moneta Wellness Noni © Twice a day empty stomach.

DAY 4, 5, 6

10 ml. Moneta Wellness Noni © Twice a day empty stomach.

7th day onwards

15 ml. Moneta Wellness Noni © Twice a day empty stomach.

Duration : 12 weeks – 3 months

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CRITERIA FOR DIAGNOSIS

INCLUDING CRITERIA:-

- ❖ All Biopsy and adjoining confirmatory investigation proved cancer patients.
- ❖ All ongoing DARF therapy Cancer patients complaining of Physical run down, Weakness Depressed moods, Lack of interest etc.like mental/psychological symptoms.
- ❖ Cancer patients resisting the side-effects of chemo-therapy, and seeking an alternative cure.
- ❖ Stubbed patients of cancer whose specific investigations do not respond to the established anti-cancer DARF therapy.

EXCLUDING CRITARIA:-

- ❖ Patients of Cancer suitable for surgical intervention
- ❖ Terminal Cancer patients
- ❖ Responding very well to established anti-cancer DARF therapy

CRITERIA FOR ASSESSMENT:-

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- ❖ As the infrastructure and the adopted policies of DARF is mainly based on Clinical parameters. Emphasis was put on symptomatic improvement or non-improvement of the cancer patients.
- ❖ All symptoms were given score as to 2 at time of initiation of **Moneta Wellness Noni © therapy**
- ❖ A special proposed Performa was derived approved and properly filled at time of initiation.
- ❖ Moneta Wellness Noni © was prescribed in pre mentioned doses to all the patients for the period of three months
- ❖ Periodic interrogations at 15 days interval also were documented. At the termination of Moneta Wellness Noni © therapy at the end of three months, all symptoms were noted reassess and the symptoms core derived on the basis of be effect reported by the patients.
- ❖ The status core was documented as to improvement (up to 50% as per patients reporting) was documented as 1 and marked improvement (abolished symptoms) (more than 80% as per patients reporting) were documented as 0.
- ❖ All relevant and significant investigation as per case was carried out before and after treatment with Moneta Wellness Noni © therapy.
- ❖ The records of the effect were analyzed on statistical analysis using standard research method.

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OBSERVATIONS:

Registered Patients Wise Distribution:

Type	Number of Patients	Percent
Completed the treatment	15	46.87
LAMA	17	53.12
Total	32	100.00

32 patients of various Cancer were selected and 15 were included in the study. Common vital data, some Ayurvedic data and epidemiological data are as follows.

- ❖ Age , sex, religion, marital status, socio-economical status, Vikruti etc.... vise distribution
- ❖ List of common symptoms of all 15 cancer patients
- ❖ Main symptoms core before treatment and after treatment
- ❖ Effect on investigation before treatment and after treatment.

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-
- ❖ Total effect of Moneta Wellness Noni © therapy on 15 patients of cancer before treatment and after treatment.

TABLE NO.2

VITAL DATA OF 15 CANCER PATIENTS:

Age	Sex	Vikruti	Soc./Economic Status	Marital Status	Chronicity	Addiction	Type wise	CT/RT/S

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45	M	T	T	M	6-7 M	P	WD/SCC/K	-
56	M	VP	M	M	2-3 M	P	MD/SCC	-
54	M	VP	M	M	2-3M	Ab	MD/SCC	CT/RT/S
40	F	T	P	M	8 M	Ab	HCC	-
45	M	T	P	M	3-4M	P	HCC	-
57	M	PV	T	M	3M	P	ADC	CT/RT/S
52	F	T	T	M	4YRS	Ab	GCT/HCC	CT/RT/S
43	F	PV	T	M	2-3M	Ab	HCC	-
45	M	T	T	M	2M	P	MD/HCC/K	-
33	M	PV	M	M	6M	P	NSCC/AD C	CT
60	M	T	M	M	2-4M	P	HCC	-
56	F	VP	T	M	1YR	Ab	CLL	CT
50	M	T	T	M	3M	P	HCC	CT
30	F	T	F	M	4M	Ab	ALL	CT

TABLE NO:3

SITE OF THE CANCER OF 15 PATIENTS

1	GALLBLADDER
2	TONGUE
3	RECTO-SIGMOID COLON
4	OVERY, LIVER
5	MAXILLAE
6	ESOPHAGUS, LIVER
7	BREAST, LIVER
8	TONGUE MARGINE
9	MUO, NECK
10	BREAST, BONE
11	TONGUE

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12	A.L.L
13	LIVER
14	C.L.L
15	ESOPHAGUS, LUNG

RESULTS

TABLE NO:4

SYMPTOMS WISE IMPROVEMENT OF 15 CANCER PATIENTS: (SYMTOM SCORE)

NO.	SYMPTOMS	B.T.	A.T
1	Aversion of food	2	0
2	Chronic stomatitis	2	0
3	Tongue ulcer	2	2
4	Malaise	2	0
5	Perforated pallete ulcer	2	2
6	Weight loss	2	1
7	Bleeding per rectum	2	0
8	Lack of mood	2	0
9	Pain in lower abdomen	2	1
10	Lethargy	2	0
11	Nodular swelling under cheek	2	2
12	Breathlessness	2	1
13	Haemoptysis	2	0
14	Bone pain	2	2
15	Altered bowel habits	2	0
16	Tonsilar growth	2	1
17		2	1
18	Neck nodes	2	1
19	Jaundice	2	0

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20	Pallor	2	1
21	Aching calves	2	0
22	Chronic fatigue	2	0

Table No 4 / a

Mean Symptom Score

		Total Score
1	Before Treatment	44
2	After Treatment	15

TABLE NO.5

EFFECT ON FBS AND PPBS OF 15 CANCER PATIENTS

		B.T	A.T.
1	F.B.S. (MEAN)	115 +/- 10	110 +/- 10
2	P.P.B.S.(MEAN)	160 +/- 10	150 +/- 10

TABLE NO:6

EFFECT ON Hb. LEVELS OF 15 CANCER PATIENTS

		B.T.	A.T.
1	Hb. LEVELS(MEAN)	10 +/- 2	11 +/- 2

TABLE NO.7

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EFFECT ON L.F.T.(MEAN) OF 15 CANCER PATIENTS

		B.T.	A.T.
1	TOTAL BILIRUBIN (mg %)	1.2 +/- 0.1	0.5 +/- 0.01
2	DIRECT BILIRUBIN	1 +/- 0.1	0.2
3	INDIRECT BILIRUBIN		0.3
4	S.G.O.T (u/l)	203+/-10	79+/-9
5	S.G.P.T. (u/l)	300+/-15	64+/-10
6	ALKALINE PHOSPHATASE	250+/-10	100+/-10
7	TOTAL PROTEIN (gm%)	6+/-1	5+/-0.1

TABLE NO.8

EFFECT ON R.F.T. (MEAN) OF 15 CANCER PATIENTS

		B.T.	A.T.
1	S.CREATININE	2.1=/-0.1	0.7
2	BL.UREA	55+/-2	35+/-3

TABLE NO. 9

EFFECT ON URIC ACID LEVELS OF 15 CANCER PATIENTS

		B.T.	A.T.
1	URIC ACID(MEAN)	5.2+/-0.2	5+/-0.2

TABLE NO.109

EFFECT ON 24 HOUR URINE PROTEIN (MEAN) OF 15 CANCER PATIENTS

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		B.T.	A.T
1	URINE PROTEIN(mg/dl)	600+/-25	200+/-10

TABLE NO.11

EFFECT ON 24 HOURS URINE OUT PUT (MEAN) OF 15 CANCER PATIENTS

		B.T.	A.T.
1	24 HOURS URINE OUT PUT(ml.)	2500+/-30	3000+/-30

SIDE-EFFECTS: No adverse effects of the drug therapy were observed during the study.

DISCUSSION:

Cancer is a group of diseases in which cells are aggressive (grow and divide without respect to normal limits), invasive (invade and destroy adjacent tissues), and sometimes metastatic (spread to other locations in the body). These three malignant properties of cancers differentiate them from benign tumors, which are self-limited in their growth and don't invade or metastasize (although some benign tumor types are capable of

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becoming malignant). Cancer may affect people at all ages, even fetuses, but risk for the more common varieties tends to increase with age. Cancer causes about 13% of all deaths. According to the American Cancer Society, 7.6 million people died from cancer in the world during 2007. Apart from humans, forms of cancer may affect other animals and plants.

Nearly all cancers are caused by abnormalities in the genetic material of the transformed cells. These abnormalities may be due to the effects of carcinogens, such as tobacco smoke, radiation, chemicals, or infectious agents. Other cancer-promoting genetic abnormalities may be randomly acquired through errors in DNA replication, or are inherited, and thus present in all cells from birth. Complex interactions between carcinogens and the host genome may explain why only some develop cancer after exposure to a known carcinogen. New aspects of the genetics of cancer pathogenesis, such as DNA methylation, and microRNAs are increasingly being recognized as important.

Genetic abnormalities found in cancer typically affect two general classes of genes. Cancer-promoting oncogenes are often activated in cancer cells, giving those cells new properties, such as hyperactive growth and division, protection against programmed cell death, loss of respect for normal tissue boundaries, and the ability to become established in diverse tissue environments. Tumor suppressor genes are often inactivated in cancer cells, resulting in the loss of normal functions in those cells, such as accurate DNA replication, control over the cell cycle, orientation and

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adhesion within tissues, and interaction with protective cells of the immune system.

Cancer is usually classified according to the tissue from which the cancerous cells originate, as well as the normal cell type they most resemble. These are location and histology, respectively. A definitive diagnosis usually requires the histologic examination of a tissue biopsy specimen by a pathologist, although the initial indication of malignancy can be symptoms or radiographic imaging abnormalities. Most cancers can be treated and some cured, depending on the specific type, location, and stage. Once diagnosed, cancer is usually treated with a combination of surgery, chemotherapy and radiotherapy.

Cancer can be treated by surgery, chemotherapy, radiation therapy, immunotherapy, monoclonal antibody therapy or other methods. The choice of therapy depends upon the location and grade of the tumor and the stage of the disease, as well as the general state of the patient (performance status). A number of experimental cancer treatments are also under development.

Complete removal of the cancer without damage to the rest of the body is the goal of treatment. Sometimes this can be accomplished by surgery, but the propensity of cancers to invade adjacent tissue or to spread to distant sites by microscopic metastasis often limits its effectiveness. The effectiveness of chemotherapy is often limited by toxicity to other tissues in the body. Radiation can also cause damage to normal tissue.

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Despite the rise of combinatorial chemistry as an integral part of lead discovery process, the natural products still play a major role as starting material for drug discovery. The latest update of the report was published in 2007, covering years 1981-2006. According to their report, of the 974 small molecule new chemical entities, 63% were natural derived or nature-inspired (semisynthetic derivatives of natural products, compounds synthesised by use of natural product pharmacophore or compounds otherwise designed to mimic the natural ligand/substrate of the target). For certain therapy areas, such as antimicrobials, anticancer antihypertensive and anti-inflammatory drugs, the numbers were even higher (for instance, approximately 75% of all approved small molecule new chemical entities were derived from nature.

Moneta wellness Noni is a polyherbal formulation which contains herbs which are known as Rasayana drug in Ayurveda. Many of them have been screened worldwide for their anti-tumor properties too. And they have been found very promising.

Moneta wellness Noni contains Noni, Amruta, Dhatri, Brahmi, Withania Somnifera

Tribulus Terrestris, Suvarna Bhasma, Rajat Bhasma etc. Scientists have found various activities of Noni including anti tumor activity, immuno-modulation, and anti oxidant properties. Likewise, Dhatri has also been screened for its anti tumor activity several times and it has been found effective to reduce the cytotoxic effects of a known carcinogen, 3,4-benzo(a)pyrene, it is also found that when Dhatri was administered prior to radiation treatment, it has been found to have a protective effect upon radiation induced chromosomal damage (Yadav 1987).

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Over all these drugs have been described with many propertied such as As Cardiac tonic, Liver tonic, Refrigerant, Restorative, Hair tonic, Nerving-brain tonic, anti-aging, and prescribed for many conditions such as immunity booster, sexual debility in males, infertility, memory loss, hormonal imbalances, stress induced disorders, rheumatic disorder, anxiety neurosis, wounds and ulcers, weakness due to prolonged illness, bone weakness and premature aging etc. many of them are found useful for patients taking cancer chemotherapy and radio sensitization as it has Anti-tumor, anticancer, properties, it increases physical endurance, antioxidant due to anti-stress and immuno-modulator. So, keeping these things in mind, a random Clinical trial of Ayurvedic Health Drink Moneta Wellness Noni ©- was conducted on 32 patients of various types of cancer to assess its role in improving the Quality of Life (QOL) of Cancer patients and its effect on general condition and symptoms of cancer, and to evaluate the effect of Moneta Wellness Noni © on various liver functions, kidney functions and complete blood count.

Out of 32 patients, 15 patients completed the duration of treatment. Others were considered as LAMA.

REMARKS:-

- ❖ This preliminary observatory clinical try of Moneta Wellness Noni, Total 33 patient of various Cancer were selected for the study. Among them 15 complete the full duration of the treatment in the prescribed dose for three months period along with before and after treatment interrogation and investigation revels some conclusive scientific facts note worthy as follows:-

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- ❖ The study was dominated by male patients between 40-60 age group. Most of the patients had a dominating Tridoshas Vikruti reveled from there Nadi examination followed by Pitta Vata a lone vata-pitta. most of the patients were to do ie. Upper-middle class. None of the patients were bachelor.
- ❖ Maximum patient were under age-group of 40-60 yrs, male, middle class, married, Tridoshas and vata-pittaj Vikruti, 6-12 months Chronicity, addicted.
- ❖ Most of the cancer ranged between 2-6 months Chronicity . Tallest being two years.
- ❖ Strikingly this study reveals equal number of tobacco addictive patients verses none addicts.
- ❖ Amongst all 15 patients , 3 patients were **of Squamous cell carcinoma**, 5 were of **Hepato cellular carcinoma** , 2 were of **Adenocarcinoma** and 2 were of **Lymphoblastic Leukemia**
- ❖ Most of the patient ie. 8 , have had no specific anti-cancer treatment taken. Whilst 7 have had under gone either or chemotherapy/RT / surgery.
- ❖ **Effect of therapy:** The status core was documented as to improvement (up to 50% as per patients reporting) was documented as 1 and marked improvement (abolished symptoms) (more than 80% as per patients reporting) were documented as 0. Amongst all common 25 observed symptoms 11 were **reveled completely**, 8 symptoms **partially** and 5 symptoms **remained status quo**.

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- ❖ According to that scoring pattern, symptoms like Aversion of food, Chronic stomatitis, Malaise, Bleeding per rectum, Lack of mood, Lethargy, Haemoptysis, Altered bowel habits, Jaundice, Aching calves, and Chronic fatigue were relieved by 100 %.
- ❖ Where as Weight loss, Pain in lower abdomen, Breathlessness, Tonsillar growth, Neck nodes, and pallor were relieved by 50 %.
- ❖ However it was not found to be much effective on signs and symptoms like Perforated pallete ulcer, Tongue ulcer, Nodular swelling under cheek, or chronic Bone pain.
- ❖ Overall mean symptom score was reduced from 44 to 15. 15 patients showed improvement in their symptoms 31.82 %, and markedly improvement 50% in their respective concern.
- ❖ This treatment did not showed adverse effects on FBS, PPBS, Hb levels and S.Uric acid levels.
- ❖ This treatment showed highly significant effect on liver function profile of the patients.
- ❖ This treatment unexpectedly showed a positively encouraging effect on renal function profiles, 24 hours urine protein and 24 hours urine output.

SUMMARY & CONCLUSION:-

- ❖ Assessing the effect and the basis of the conclusion it can be summarized that Moneta Wellness Noni © has a distinctly positive role in providing health, ease and relaxation to the cancer patients.

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- ❖ Moneta Wellness Noni © improves liver functions and renal functions.
- ❖ Moneta wellness noni © can improve the quality of life of cancer patients.
- ❖ Overall effect of Moneta Wellness Noni © in the cancer can be concluded as primarily encouraging. Bigger trials on larger scale with more detailed scientific parameters are expected to reach to some confirmative conclusion.

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