

Role of Bioenergy of Specific (SiO₂) of Madina Munawra on Chemically Induced Carcinogenesis in Albino Mice by Protecting Mutation of p53

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Background: This was conjoint to introduce a free and spiritual alternative medicine in the field of oncology by Saudi Arabian and Pakistani Doctors. **Objective:** To see the preventive and therapeutic role of Bioenergy of specific (SiO₂) from the earth of Madina Munawra on the mutation of p53 in chemically induced carcinogenesis in albino rats. **Design:** An experiment study on skin and breast of albino rats. **Place and Duration:** The study was carried out at the animal house of Postgraduate Medical institute and King Edward Medical College University, Lahore. It was conducted for 20 weeks for preventive and 10 weeks for therapeutic groups. **Material and Methods:** 25 albino mice (male and female) were selected for this study. These animals were divided into five groups (A-F), five animals in each. DMBA and TPA (chemical carcinogens) were given to produce the cancer. Bioenergy of Specific SiO₂ (taken from the earth of Madina Munawra) was orally and parentally given before giving chemical carcinogens to see its preventive and was given parentally for its therapeutic roles. p53 was detected in all animals. **Results:** In-group "A" no lesions were produced. In-group B all animals developed skin ulcer. One animal developed papilloma; one Intra epithelial Squamous cell carcinoma and three developed invasive Squamous cell carcinomas. In-group "C" four animals developed lump breast and were invasive ductal carcinomas. Groups "D and "E" were preventive groups and no malignancy was seen in group D while only one animal developed tubular adenoma breast in group E. Value of mutated proteins p53 was higher in group "B & C" as compared to group A, D, E (P<.05). Furthermore there was no side effect seen in any animal.

Key words: p53, SiO₂, Dimethylebenz [a] Anthracene (DMBA), Tetradeconoyl-Phorbol-13-Acetic acid (TPA),.

Chromosome 17 is very important in controlling the tumor because p53 is tumor suppressor gene that is located on this chromosome. This gene is single most common target for genetic alternation in human tumor because p53 is called guardian gene, which control the cell cycle. Mutated 53 is detected in every type of cancer^{1,2,3,4,5,6,7}.

A large number of agents induce neoplastic transformation of cell in vitro and in experimental animals. These agents fall into chemical carcinogens, radiation and onctogeny viruses and these are responsible for mutation of p53^{1,8,9}.

Rosi et al 2004¹⁰ has stated that immunohistochemistry is the easiest method for the detection p53 as a prognostic factor in many cancer especially squamous cell carcinoma thyroid and breast cancers. Silica particles are present in the earth, grass, leaves of plants and grains and are used in cultivation of crops and plants because these are natural nutrition for them¹¹. Crystalline Silica in aqueous buffer produces oxygen radicals that mediated in vitro DNA strand breakage. Direct interaction of Crystalline Silca with DNA may be important in Silca Carcinogenesis by anchoring DNA close to sites of free radical production on the silica surface, or by interfering with DNA replication, repair or the mitotic process¹². When these are hydrated like asbestos particles are responsible for inflammatory reaction of inhaled and cause mesothelioma^{1,10}. Theory of Bioenergy of SiO₂ in prevention of cancer Silicon and the oxygen are the two most abundant elements in the earth's crust and formation of new amorphous of Silca dioxide structures that were uniquely synthesized by a bioinspired

synthetic system may provide role in new generation on the basis of its bioenergy¹³.

A bioenergetics theory of prostate malignancy proposed that normal citrate producing prostate epithelial cell become citrate-oxidizing cell, in which mitochondrial aconitase (mACON) is not limiting, providing the energy required for the onset and progression of malignancy and metastasis. A full length cDNA encoding human skeletal muscle Macon cDNA was cloned and sequenced. mACON, cDNA contains 19-bp 5' untranslated region, a 2343-bp coding segment, and 376-bp 3' untranslated region. This precursor enzyme contains mitochondrial targeting sequence of 27 amino acid residues and mature enzyme of 753 amino acid residues. A human anti-mACON overexpression vector containing the 1171-bp mACON cDNA fragment in the reverse orientation was stably transferred into human prostate carcinoma cells, PC-3 and DU-145 cells. Results showed that mACON antisense blocked 40-60% mACON expression and enzymatic activity, which induced decrease in the intracellular ATP biosynthesis but increase citrate secretion in the human prostate carcinoma, cells. mACON antisense-transfected cells have lowered cell proliferation ratio than the mock of DNA-transfected cells. mACON has key role in the cellular bioenergy and cell proliferation of human prostate carcinoma cells¹⁴.

Consequently, the transformation of prostate epithelial cells to citrate-oxidizing cells, which increases the energy production capability, is essential to the process of malignancy and metastasis. The metabolic transformation likely occurs as a premalignant or early

malignant stage. This bioenergetic theory of prostate malignancy, if correct, will provide new approaches to the diagnosis and treatment of CA¹⁵. We created an idea that if we down load the energy of SiO₂ and the measured frequency of this energy are given through suitable media like water, oils or sugar etc. this Bioenergy may act as antioxidants and anti-inflammatory and may provide a role in the treatment of cancer. In this form if we are able to stabilize the cell changes at genetic level (DNA) we can prevent and protect cancers by controlling the cell cycle. Therefore first of all we selected the specific soil of Madina Munawra mentioned by Holy Prophet Hazrat Muhammad Piece Be Upon Him (Al Hedith al Bukhari 16).

عن عائشة رضي الله عنها ان النبي صلى الله عليه وسلم كان يقول للمريض "باسم الله تربة ارضنا، بريقة بعضنا يشفي سقيمنا باذن ربنا" رواه البخاري

Muslims belief is that holy earth of Madina Munawra is a curative of all diseases and problems. Peoples have a concept that Allah creates remedy before the appearance of any disease¹⁷.

” الا يذكر الله تطمن القلوب ”

يا من اسمه دواء وذكره شفاء

This study was carried out to see the factors which mutate the p53 like chemical carcinogens induced skin and breast carcinoma and its prevention and therapeutic role with bioenergy of SiO₂ taken from the specific soil of Madina Munawra as an alternative medicine (bioenergy medicine)

Materials and methods

25 Albino mice were selected for this study. These animals were divided into five groups (A-F), five animals in each. In-group "A" no chemical was giving while in other groups 7,12-dimethylebenz [a] anthracene (DMBA) and 12-O-tetradecanoyl-phorbol-13-acetic acid (TPA) were given to produce the cancer⁹. In-group B (males) and C (females) only chemical carcinogens were applied while in-group E (males) and F (females) Bioenergy of SiO₂ was orally given before giving chemical carcinogens to see its preventive role. In-group B and E male animals were used to produce skin cancers while in group and D female animals were used to produce breast cancer.

After 20 weeks 4 animals were selected from group B and C and further divided in to group ups (B1 & B2 and C1&C2) to see the therapeutic effect of bioenergy of SiO₂ parentally. (Table I&II). While all other animals were sacrificed and their tissues were taken for histopathological and immunohistological for p53 status and their results were compared with control and different experimental groups. Therapeutic groups were continued for next 10 weeks. Same study was carried as above. Ultrasonic guide was also taken to see the response of bioenergy. FNAC were taken to confirm the tumor from different animals.

Preparation of Bioenergy of SiO₂. We selected the specific soil of Madina Munawra. Then transferred its

Bioenergy into vehicle used Saccharum Lactis (C₁₂H₂₂O₁₁.H₂O)(18) The energy was down loaded in this vehicle. This energy was the transferred into distilled water on the basis of ATP production transferring system through cell mitochondria. These molecules were brought into line according to vibration theory (19). (Fig I)

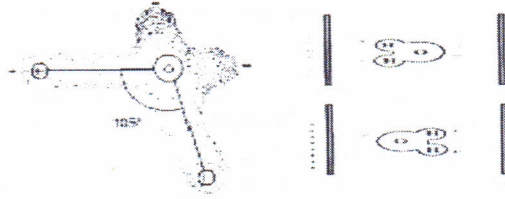


Fig: 1. Showing energy molecule distributed irregularly on left side (2nd stage) while lining up on right side (3rd stage)

This energy was then give specific message according to the load of frequency for the need of DNA (chromosome 17) for its normal life. This Bioenergy was prepared in orally taken doses and injections form. Formulas¹⁹

1. Silicon dioxide (Structure photograph) SiO₂
2. Bioenergy medicine for oral use $\Delta E = SiO_2 \cdot f^{K6}$
 $\Delta E = SiO_2 \cdot f^{RR6}$
3. Bioenergy medicine for parental use $\Delta E = SiO_2 \cdot f^{K12}$
RR, K= Specific coded information, F=Frequency, ΔE = Quantum Energy

Table 1. Group distribution of animal with doses of chemical and drug (Preventive).

Group n=5	DMBA 100µg (single dose)	TPA 10µg (twice a week)	(SiO ₂)	Duration 20Weeks
A	Nil	Nil	Nil	Negative Control
B	+	+	-	Skin application
C	+	+	-	Breast Application
D	+	+	+	Skin application
E	+	+	+	Breast Application

Table II. Group distribution of animal with doses of Bioenergy of SiO₂ (Therapeutic).

Group	SiO ₂	Dose	Rout
B1 (n=2)	-	-	-
B2 (n=3)	+	-	Parental
C1 (n=2)	-	-	-
C2 (n=2)	+	-	Parental

Results:

In-group A no lesion was produced and there was no mutation of p53 as it was immunohistochemically negative in all five animals and this group was used as negative control group. In-group B all animals developed ulcers and nodular lumps on skin which was Squamous cell

papilloma¹, intraepithelial Squamous cell carcinomas¹ and Squamous cell carcinomas³, Few of the animals died before completion of experimental duration. Value of mutated protein p53 was higher in this group and significantly high as compared control group A. Group D and E were preventive groups and no malignancy was seen in this animal one animal developed Squamous cell papilloma while other developed tubular adenoma breast. General health remained good of all these animals in both groups. There was significant difference of lesions in both groups as compared to groups B and C and no statistical difference from group A. All the results are shown in. Preventive roll of Bioenergy of SiO₂ was good and low or negative level of p53 indicates a good prognosis of these animals that developed few lesions in these groups. Score

of p53 was high in the animal of "B1 & C1" groups who did not received therapeutic doses while p53 was low in B2 & C2 groups who received therapeutic doses and tumor grade remained low in B2& C2 as compared to tumor of group "B1"& "C1". (All the results are given in Tables III and V and Fig 2-8)

Table III Gross lesions in different animals of negative and non-preventive group during 20 weeks.

Group n=5	Ulcer	Mass	Hair Loss	General Health
A	Nil	Nil	Nil	Good
B	5	5	5	Poor
C	Nil	4	Nil	Poor
D	Nil	2	Nil	Good
E	Nil	1	Nil	Good

Table IV. Gross lesion in different animal of therapeutic and non-therapeutic group during 10 weeks.

Group (n=2)	Ulcer	Mass before treatment	Mass after treatment	General Health
B1 (SiO ₂ not given)	Animal 1 Nil	0.5x0.5x0.5cm (Skin papilla)	0.6x0.6x0.6cm	Sacrificed after 10 weeks
	Animal 2 1x0.5x0.2cm	Malignant Ulcer		Died after 5 weeks
B2 SiO ₂ given)	Animal 1 Nil	0.5x0.5x0.5cm (Skin papilloma)	Reduced	Sacrificed after 10Weeks
	Animal 2 1x0.5x0.2cm	Malignant Ulcer	Reduced	Sacrificed after 10Weeks
C1 (SiO ₂ not given)	Animal 1 Nil	4x3x2.5cm	4.5x4x4cm	Died after 4 weeks
	Animal 2 Nil	205x2x2cm (Breast)	3x3x2.5cm	Condition worsens but sacrificed after 10 weeks.
C2 (SiO ₂ given)	Animal 1 Nil	4.5x4x3.5cm (Lump Breast)	Reduced	Died after 4 weeks
	Animal 2 Nil	1.5x1x1cm	Reduced	Improved

Table V. Microscopic lesions in different animal of preventive and non-preventive group during 20 weeks.

Group n=5	Type of Tumors				Total Lesions	Grade	Score of p53 protein (Week)	Comments
	Pap	SQCIS	SQCC	Infiltrating Ductal Carcinoma Breast (IDC)				
A	Nil	Nil	Nil	Nil		No Tumor	p53=-/+ (Week)	Negative Control Group
B	1	1	3	Nil	5	Pap=Nil 3=WD SQCC 1=PD SQCC	3=1+ 1=2+	No Bioenergy of SiO ₂
C	Nil	Nil	Nil	4	4	IDC.	3+	No Bioenergy of SiO ₂
D	1	Nil	Nil	Nil	1	Benign	-	Bioenergy of SiO ₂ as Preventive
E	Nil	Nil	Nil	1 (Tubular adenoma	1	Benign	-	Bioenergy of SiO ₂ as Preventive

Table VI Microscopic lesions in different animals of therapeutic and non-therapeutic group during 10 weeks.

Group (n=2)	Lesions		Grade of tumor before treatment	Grade of tumor after treatment	p53	
	Skin Lesions	Breast Lesions				
B1 (SiO ₂ not given)	Animal 1	Squamous cell Papilloma	Nil	Benign	Benign	-/+
	Animal 2	Squamous Cell Carcinoma	Nil	Well Differentiated	Moderately Differentiated	1+ to 2+
B2 SiO ₂ given)	Animal 1	Squamous cell Papilloma	Nil	Benign	Disappeared	-/+
	Animal 2	Squamous Cell Carcinoma	Nil	Well Differentiated	Well Differentiated	1+
C1 (SiO ₂ not given)	Animal 1	Nil	IDC	High	High	3+
	Animal 2	Nil	IDC	Intermediate	High	3+
C2 (SiO ₂ given)	Animal 1	Nil	IDC	High	High	2+
	Animal 2	Nil	IDC	Low	Low	1+

Discussion

In a study on an association of allelic loss at the fragile histidine tirade (FHIT) locus and p53 alteration with tumor kinetics and chromosomal instability was detected in non-small cell lung carcinoma. Over expression of p53 was observed in 39 out of 66 cases (40.9%) (2,20-22).

In our study mutation of p53 by chemical carcinogens are responsible for the production of the Squamous cell carcinoma of skin and invasive ductal carcinoma breast. p53 index in tumor was related by its grades (-/+ in Squamous cell carcinoma, 1+ in well differentiated carcinoma, 2+ in moderately carcinoma and 3+ in poorly carcinoma and stages of carcinoma 1+ in carcinoma in situ and higher in invasive sho9w that p53 is a good prognostic factors. Mutation of this protein was prevented by the use of Bioenergy of silicon dioxide (SiO2) due to its preventive effects against chemical carcinogenesis. Normal low score of p53 reveal stabilization of chromosome 17 on which this gene lies by the use of Bioenergy of Silicon dioxide from the Holy earth of Madina Munawra (Table V).

In another experiment of its therapeutic effect in these tumors by Bioenergy of Silicon dioxide (SiO2) hopeful results are seen on the basis of level of p53. These results show tumor have low levels of p53 as compared to untreated tumors which provides a hopeful results in future for humans. Further good results may be obtained in human if this Bioenergy medicine is given to post operated patients. (Table VI). Further more none of the animal showed any or toxic effect by the use of these medicines.



Fig: 2. Photomicrograph of animals showing different lesions (L to R) NO 1,5 animal not taking SiO2 developed Breast carcinoma and Squamous cell carcinoma. While animal No, 2, taking SiO2 developed Papilloma. Animal No, 3,4,6 treated with SiO2 Parentally reduced the size of Breast Carcinoma and Squamous cell carcinoma. This animal No 3,4,6 lived longer than animal No 1&4.

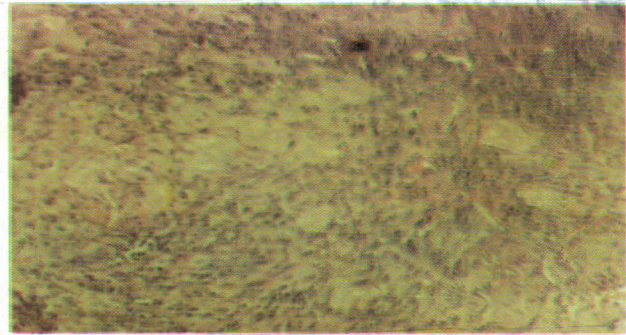


Fig: 3. Photomicrograph of Squamous Cell Carcinoma not treated with SiO2 (H&E 10X)

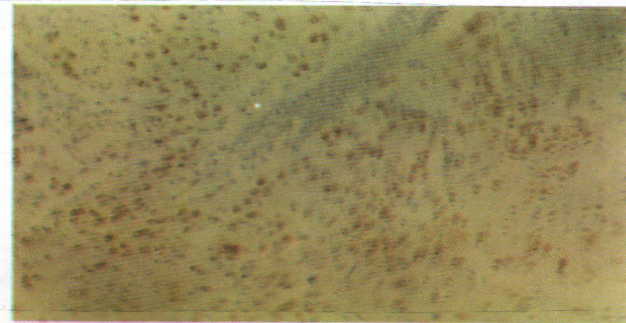


Fig:4. Photomicrograph of Squamous Cell Carcinoma showing p53 score 2+ not treated with SiO2 (Immunohistochemistry 10X)

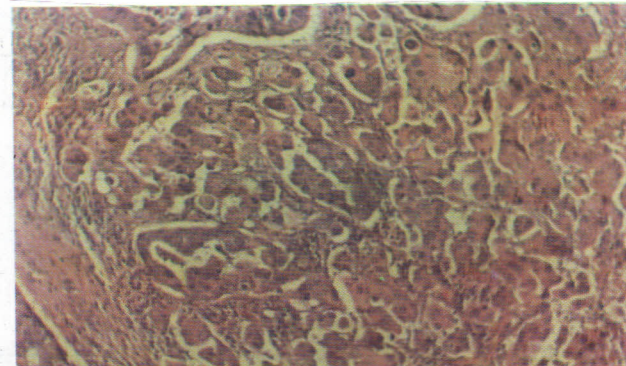


Fig: 5 .Photomicrograph of Invasive Ductal Carcinoma Breast not treated with SiO2 (H&E 10X)

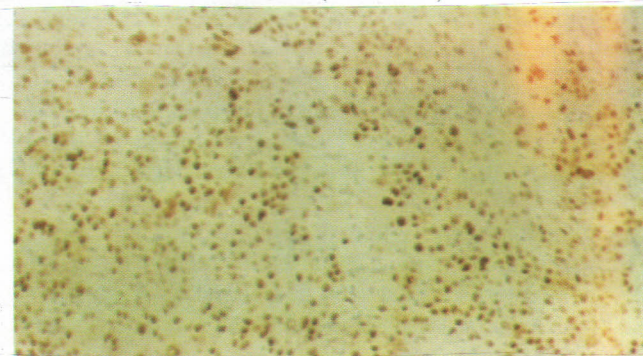


Fig: 6. Photomicrograph of Invasive Ductal Carcinoma Breast not treated with SiO2 (p53 score 3+ Immunohistochemistry 10X)



Fig 7: Photomicrograph of Squamous Cell Papilloma treated with SiO₂ (H&E 10X)

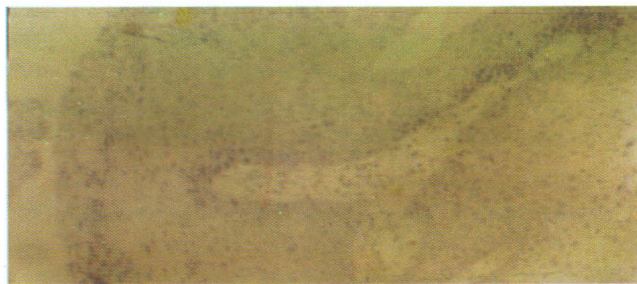


Fig 8: Photomicrograph of Squamous Cell Papilloma treated with SiO₂ showing weak positivity of p53 (Immunohistochemistry 10X)

Conclusion:

It is proved by this experimental study that mutation of p53 gene is responsible in the production of skin and breast cancers and chemical carcinogens causes the mutation of this cell cycle guardian gene on chromosome 17. It is proved that Bioenergy of SiO₂ of Madina Munawra has certain positive role in prevention and protection of these tumors.

Allah had sent prophets for betterment of humanity. Prophet Hazrat Muhammad (PBUH) has given a great knowledge by His Hedith. We believe that time has arrived that we should collect His Hedith regarding health and understand these within the present knowledge and scientifically evaluate them and use for the betterment of Humanity. No doubt Muslim sacred belief on water of Zam-Zam and Earth of Madina Munawra is on religious basis but we can prove these effects on the basis of modern sciences. So world should not make it a matter of prestige and without touching the belief of anyone it should be used for sick humanity.

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