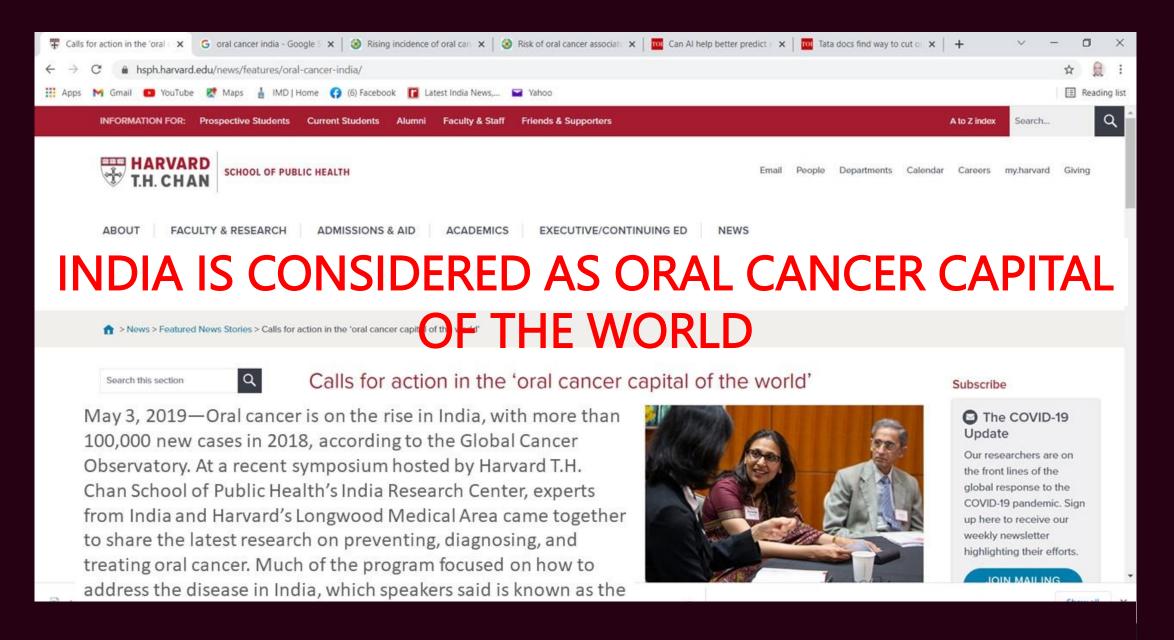
Prof. Sanjoy Kumar Pal PhD, Dip. Naturopathy
Head, Department of Biological Sciences
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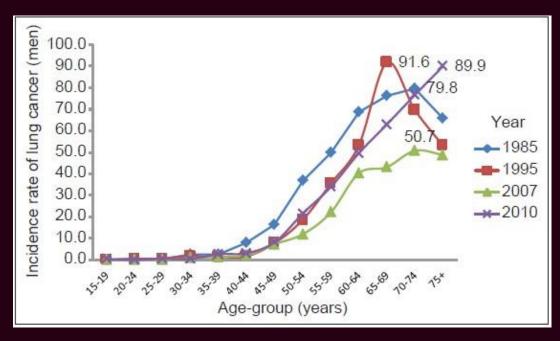


www.sanjoypal.com



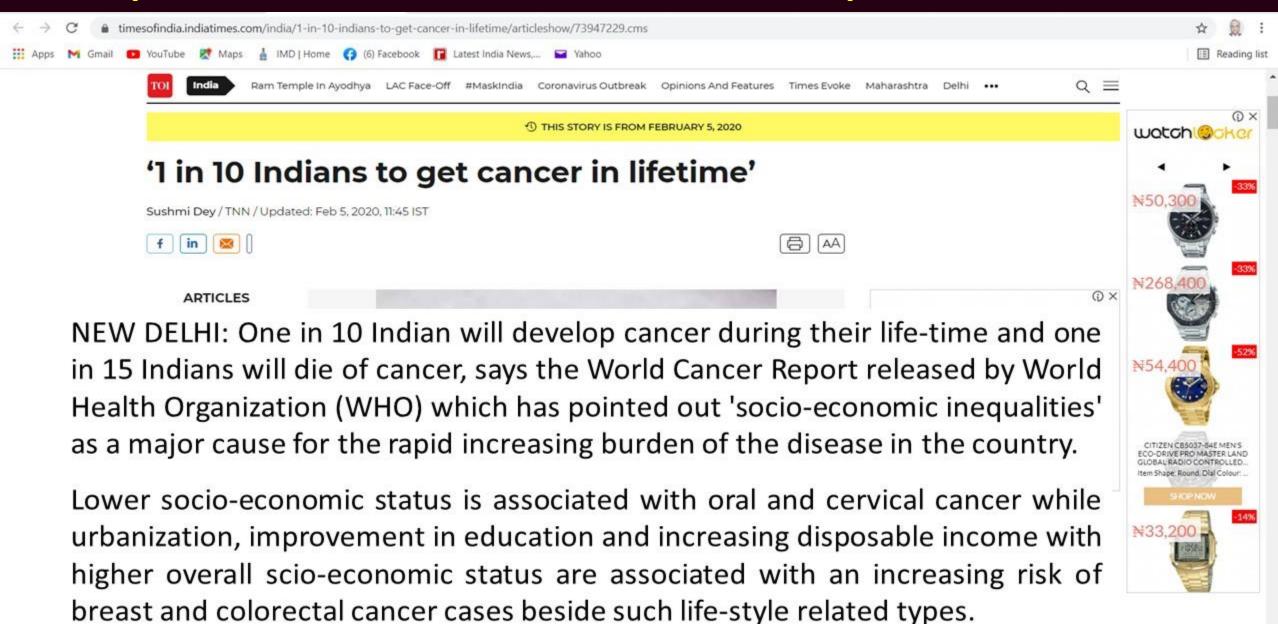


Source: https://tinyurl.com/vcja9cp6



PC Gupta et al. Rising incidence of oral cancer in Ahmedabad city Indian J Cancer 2014; 51 (5): 67-72

AS per the GLOBOCAN statistics, the rate of new cases being diagnosed has increased by a staggering 68% in the past two decades alone, making it a real public health crisis.



#### **CANCER BURDEN IN 2018**

Socio-economic inequalities a major cause for rapid rise in cancer cases in India, says a study

**NEW CASES** 

DEATHS

### 1.16 million 7,84,800

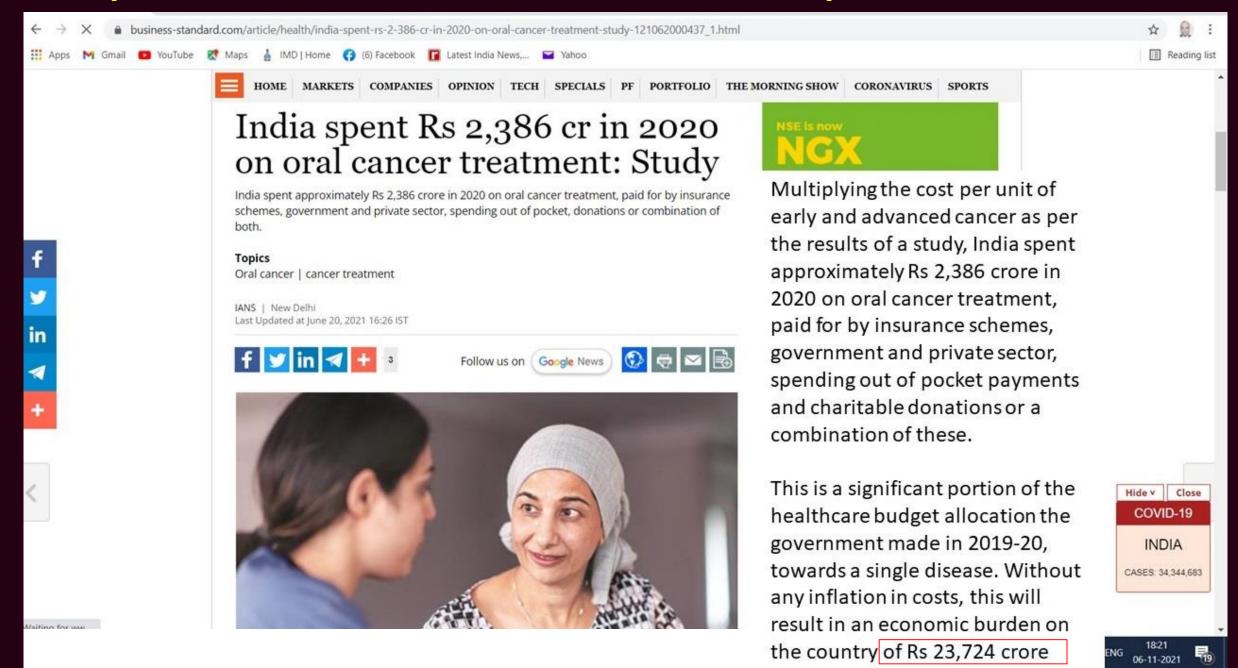
**Number of cases of six most** common types of cancer

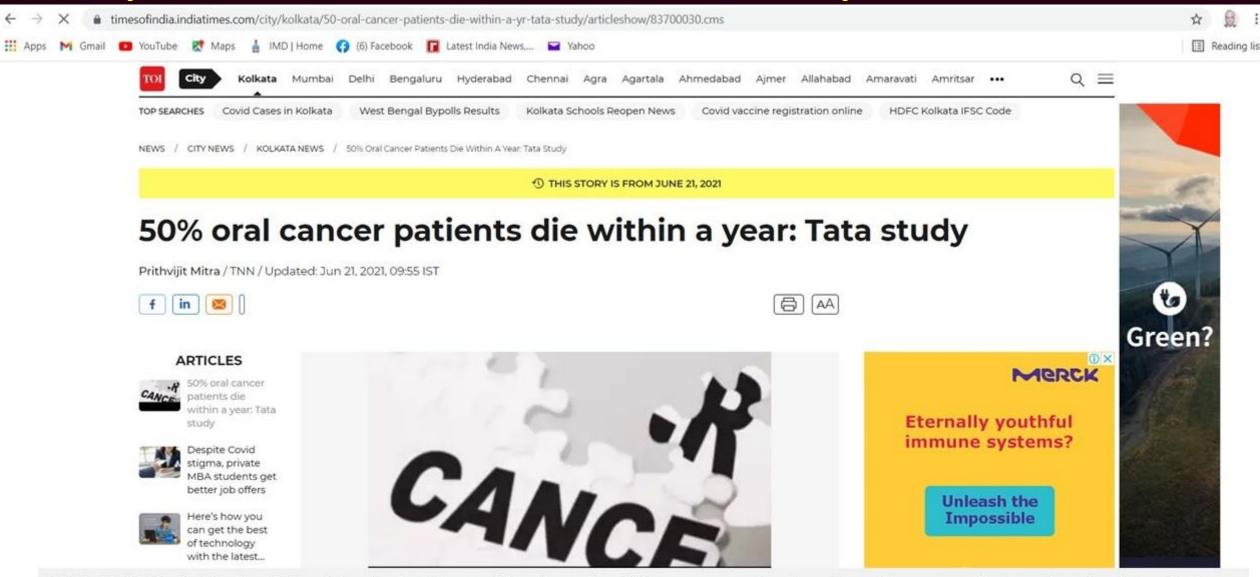
Breast cancer	1,62,500		
Oral cancer	1,20,000		
Cervical cancer	97,000		
Lung cancer	68,000		
Stomach cancer	57,000		
Colorectal cancer	57,000		

In men | Oral, lung, stomach, colorectal and oesophageal cancer accounted for 45% of new cancer cases

In women | Breast, cervical, ovarian, oral and colorectal cancer account for 60% of cases

Source: WHO's World Cancer Report





KOLKATA: A first-of-its-kind study on the 'cost of illness analysis of oral cancer', conducted by Tata Memorial Centre in Mumbai, reveals that half of oral cancer patients in India die within a year of diagnosis and are aged between 30-50 years, leading to a huge productivity loss for the country.



TMC director Dr. RA Badwe said, "According to the World Health Organization (WHO), cancer is the second leading cause of death globally, with approximately 70% cases being reported in low and middle income countries.

the medical journal 'ecancer' on June 17.

Are you ready for the

06-11-2021

next cyberthreat?

Discover

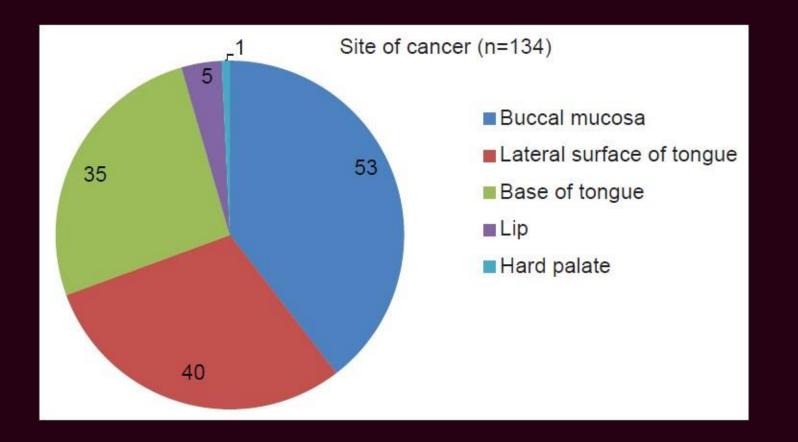


#### **Causes For Oral Cancer**







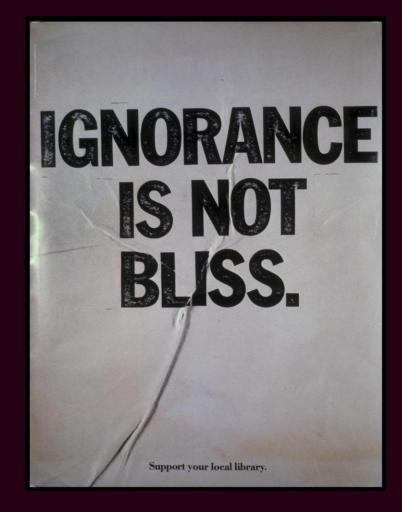


Risk of oral cancer associated with gutka and other tobacco products: A hospital-based case-control study.

Sandeep Mahapatra, Ramachandra Kamath, Bharatesh K Shetty, VS Binu.

Journal of Cancer Research and Therapeutics. 2015 | Volume: 11 | Issue: 1 | Page: 199-203

50% of Oral Cancer can be Prevented



Majority of Indian Cancer patients report to a clinic with advanced malignancy, where initiation of curative therapy is difficult.



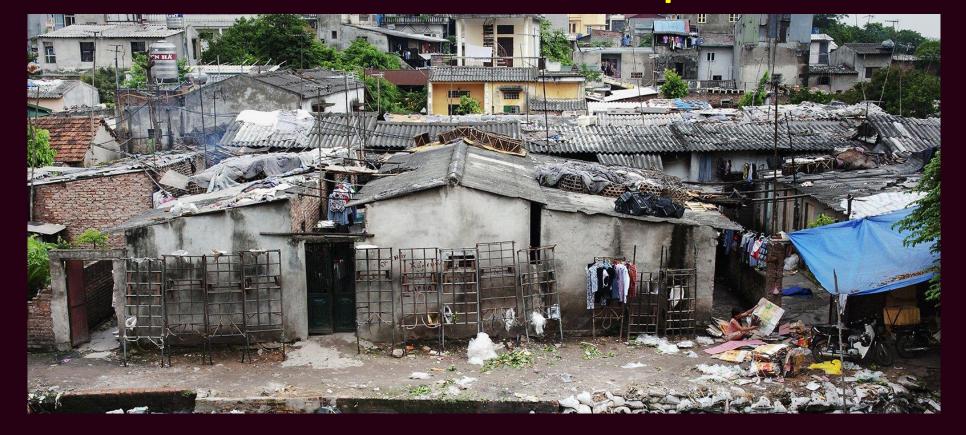


Warning signs of harmful effects of tobacco is now displayed on cigarette packets and gutka pouch





As long as smoke less tobacco products are available in the market the incidence of oral cancer is bound to increase



Though great advances have been made in the treatment of some cancer and new advances in surgery, radiotherapy, and chemotherapy have lead to an increase in cure rates. But the price of conventional care is often out of reach for majority of cancer patients living in developing world.





## Complementary and Alternative Medicine (CAM)

- Meditation
- Hypnosis
- Guided Imagery
- Biofeedback
- Relaxation Therapy
- CBT
- Prayer and Spirituality
- Homeopathy
- TCM
- Bodywork and Movement Therapy

- Acupuncture
- · Ayurverdic Medicine
- · Physical Medicine
- Chiropractic Therapy
- · Energy Medicine
- Dietary Medicine
- Herbal Medicine
- · Massage Therapy
- Naturopathy
- Neural Therapy
- Magnet Therapy

(a) 2007 Ctavan I Carimai DDC DMad

Globally, a substantial number of cancer patients are dependent on various complementary and alternative medicines / therapies (CAM)





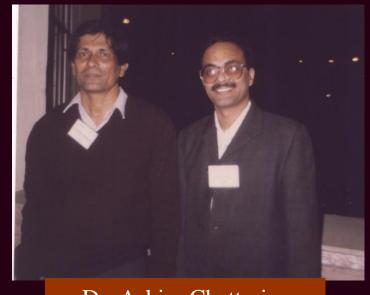


- I turned to cancer research after my Father-in-law Mr. Brojen Das was diagnosed with cancer and conventional chemotherapy was not successful
- Tried certain herbal therapy and got benefit
- Moved to Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow in 2000
- Got Lady Tata Memorial Fellowship genetic studies of gallbladder cancer
- ICMR Fellowship to study various cancer alternative therapy in northern Indian

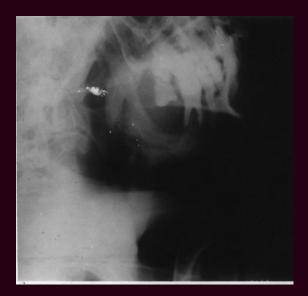
ank	Categories	Response	Number of patients = 200	
	No treatment Options	Advice of oncologists  No specific treatment recommended by oncologist	40 (20%)	
	Financial	Not responding to conventional treatment Financial and economic problems No health insurance Treatment in private clinic too costly Already invested a considerable amount in conventional treatment	32 (16%)	
	Quality of Life	Patient too weak to undergo or continue chemotherapy Too old for conventional treatment Adverse side-effect to radiotherapy	30 (15%)	
	Advertisement	Advice of a friend who used a certain therapy Read in newspaper	25 (12-5%)	
	Pain Management	Like to use this therapy primarily for palliation	23 (11-5%)	
	Patient Management	Live near the clinic and easy to manage the patient at home Availability of doctor at all times of the day and night	15 (7-5%)	
	Multimodal Therapy	Like to use alternative medicine along with the conventional treatment	14 (7%)	
	Frustration	Not convinced with oncologist's advice Need further information about cancer and options	10 (5%)	
	Faith	Belief that homeopathic medicine can cure cancer	8 (4%)	
0	Experimental	Suffering from pancreatic cancer; would like to try an experimental therapy	3 (1-5%)	

394

THE LANCET Oncology Vol 3 July 2002 http://oncology.thelancet.com

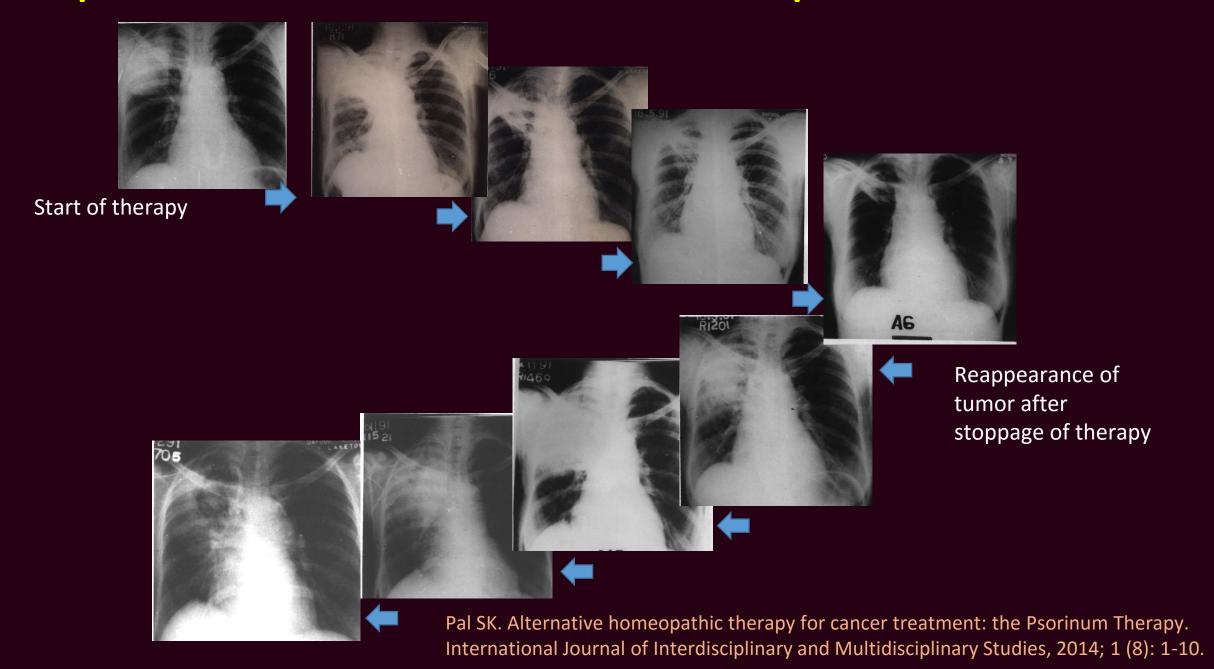




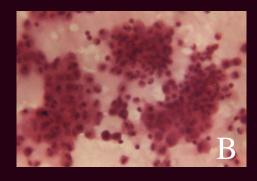


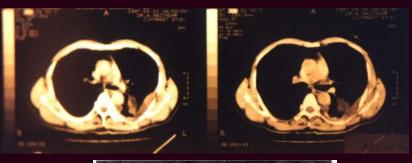


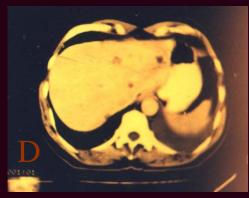
- Dr. Ashim Chatterjee
- Psorinum therapy is an alternative approach of treating cancer with homeopathic mother tinctures.
- This method of treatment was proposed by Dr. Ashim Chatterjee in Kolkata in the mid 80s.
- Radical cure of cancer was reported in many biopsy confirmed cancer patients. Was a popular therapy, but stopped by Govt. for irregularities.

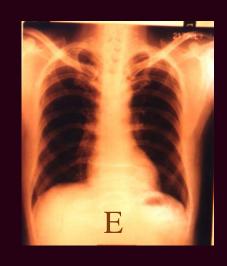


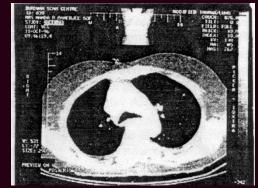












F



A- X ray chest at Presentation

B-FNAC

C- CT Scan dated 11.03.1997

D- Liver secondaries

E- X ray Chest after 1 year

F- CT scan a dated 09.04.2001

G – Patient after recovery

#### Clinical Details:

Name: Mr. G D Ghosh

Age : 69 M

Diagnosis: Ca Lung

Response: ++++

Duration: 4 years

Disease free survival: 10 Years Side effects: Suffered Stroke once



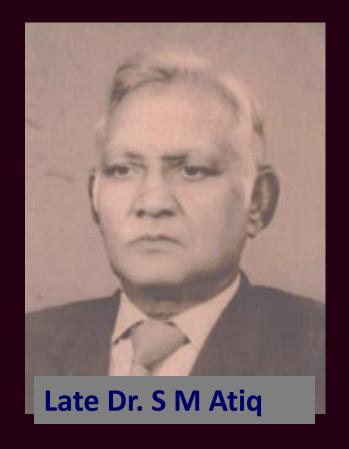




- In SGPGIMS, I started my research work on genetic analysis on gallbladder cancer. Getting samples was extremely difficult as most of the patients were too advanced for surgery
- However, few patients did reported to our clinic after 6 months
- They admitted to have taken some herbal therapy







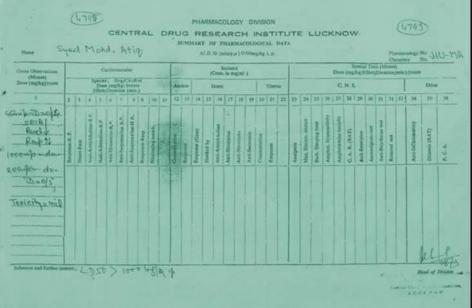


HUMA is an Poly-herbal Alternative Cancer Therapy tried by patients mostly with advanced malignant disease where conventional therapy is not possible

# Some important Ayurvedic herb from which HUMA Therapy evolved

Azadirachta indica Acacia catechu Asparagus recemosus Curcuma longa Calotropis procera Catharanthus roseus Embelica officinalis Ocimum sanctum Plumbago xylanica Semecarpus anacardium Tinospora cordifolia Tiliacora racemosa Withania sominifera







At presentation



6 months after therapy



### Some Facts about HUMA Therapy

This poly-herbal preparation do not contain any heavy metals.

The medicines are in liquid and powdered form.

The medicines are orally administrated and are titrated time to time depending on the condition of the patient.

Along with HUMA therapy the patients also receive conventional life support care.

Adverse side effects are less because of individualized dosing.

Medicines are prepared by the Huma Cancer Society & checked for batch to batch variations.

Marked regression of cancer / tumor were observed in some patients suffering from oral and rectal malignancy.







1 month after therapy



6 months after therapy



One year after therapy

#### **Clinical Details:**

Age : 70 Years

Histology : Verrucous Carcinoma

Stage  $: T_4 N_3 M_x$ 

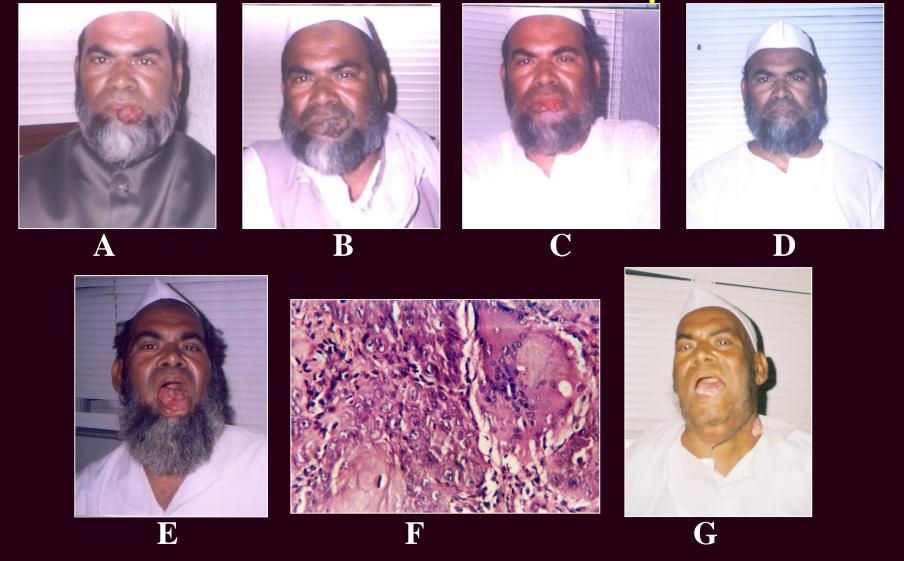
Conventional therapy: Refused because of

old age

Response to HUMA : ++++

Present status : Stable and Alive

Relapse free survival: 6 years



**Figure:** A – At presentation; B – 3 months after therapy; C – 6 months after therapy; D – 1 Year after therapy; E – Relapse of disease after stoppage of therapy; F – Histopathology; G - 3 months after restart of therapy



At Presentation



6 months after therapy



6 months after therapy



9 months after therapy

#### **Clinical Details**

Age : 32 Years

Histology : Sq Cell Carcinoma

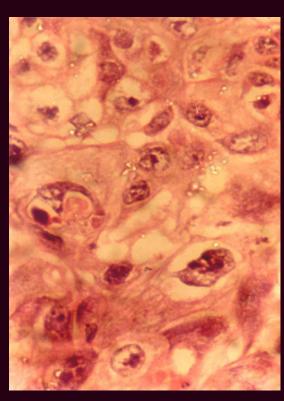
Stage  $: T_4 N_3 M_x$ 

Conventional therapy: Nil Response to HUMA: +++ Present status: Dead

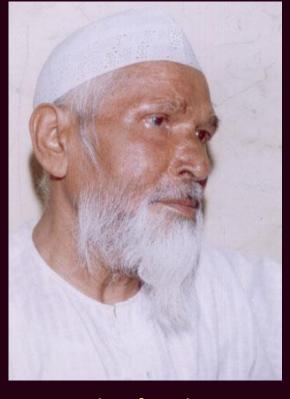
Survival : 12 months



At Presentation



Histopathology



9 months after therapy

#### **Clinical Details:**

Diagnosis: Sq Cell Ca

Response: +++

Present Status: Dead Survival: 14 months







Histopathology



3 months after therapy



5 months after therapy



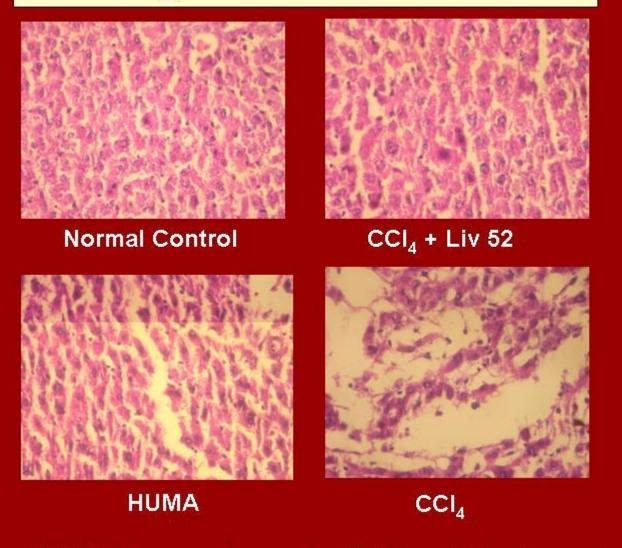
8 months after therapy



**Clinical Details** 

Recurrence of the disease after FNA was done

## Sub Acute Toxicity Study in Rats Following OECD Guidelines

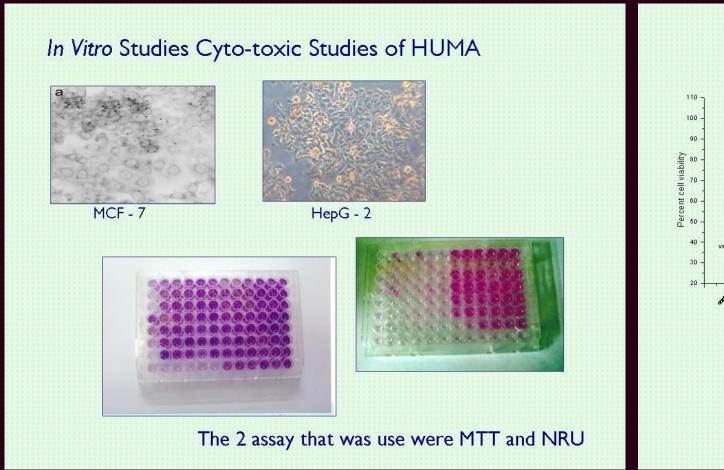


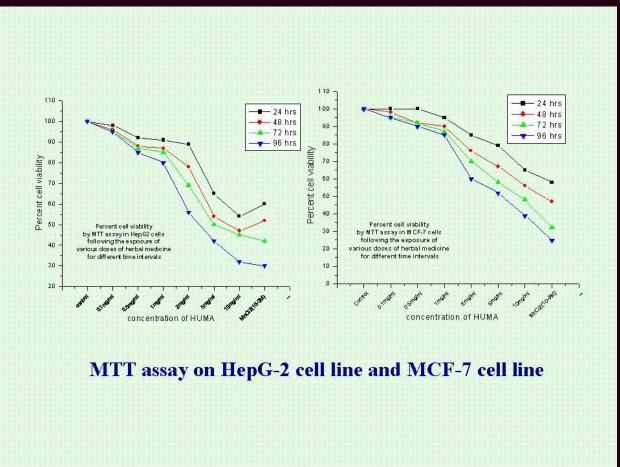




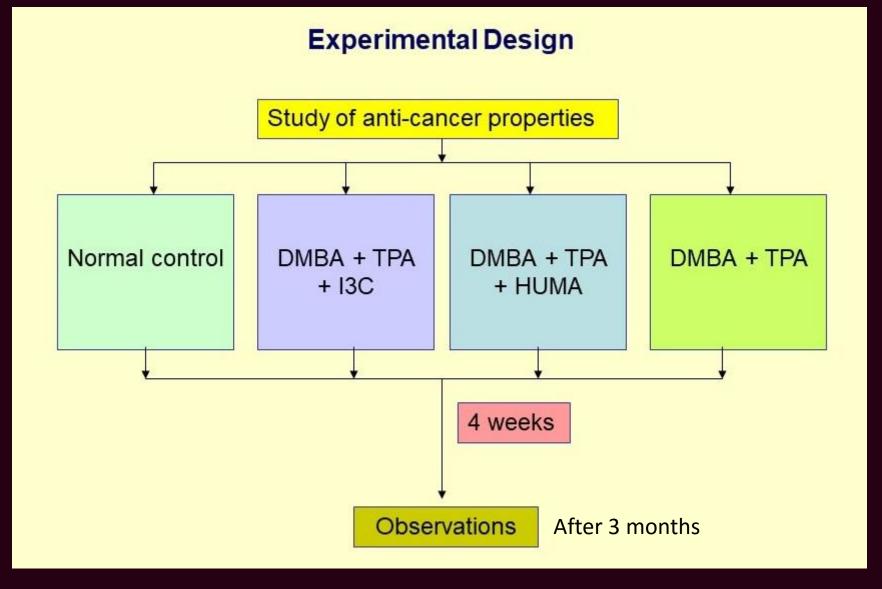


HUMA produced mild toxicity in rats





The liquid medicine of HUMA was found to be very toxic in cancer cell lines. The study was done at Indian Institute of Toxicology Research, Lucknow.

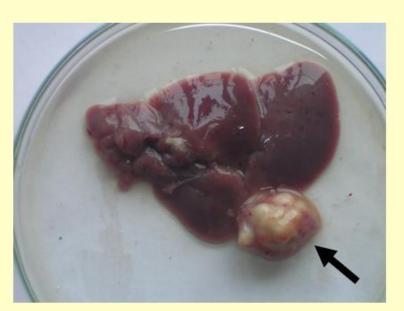


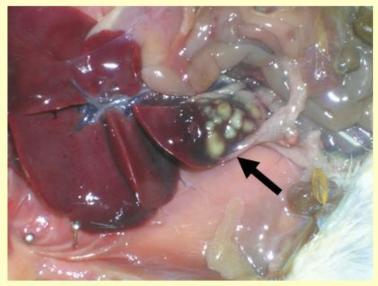
7,12-dimethylbenz[a]anthracene (DMBA)
12-O-tetradecanoylphorbol-13-acetate (TPA)

13C - Indole-3-carbinol



All DMBA + TPA treated rats developed malignant tumors





#### **Best Case Series Submission To NCI - NIH**

Therapy	No. of Cases	Persuasive	Supportive	Not Studied
Psorinum	25	02	80	15
HUMA	20	03	05	12
Ayurveda*	13	08	02	03

<sup>\*</sup> Vaidya Balendu's Protocol

- Olaku O, Zia F, Santana JM, White JD. The National Cancer Institute best case series program: a summary of cases of cancer patients treated with unconventional therapies in India. *Integrative Cancer Ther*. 2013; 12(5): 385-92.
- Pal SK. Best Case Series Program: Submission of unconventional therapies from ndia. *Integrative Cancer Therapies* 2013;12(6): 453.

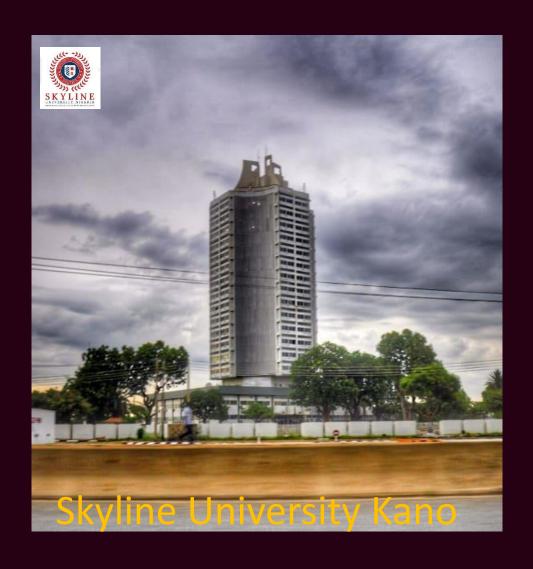




We were invited to present our research findings' in the NCI's Office of the Cancer Complementary and Alternative Medicine, Bethesda, USA



- Certain herbal preparations such as HUMA and Psorinum may have a good chemoprotective potential
- Proper design clinical trial can strengthen this claim
- Many chemotherapeutic drugs have a herbal origin



Acknowledgement: All my postgraduate students. ICMR Fellowship provided to me in SGPGIMS.

Thank you for your Attention