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## Debunking Medical Myths: Shark Cartilage Treats Cancer: Fact Or Fiction?

Tiffany McKenney

Wayne State University School of Medicine, dy5695@wayne.edu

Nathan Li

Wayne State University School of Medicine, go9721@wayne.edu

Eve Sherbin

Wayne State University School of Medicine, hf5015@wayne.edu

Jeremy Taigman

Wayne State University School of Medicine, hk4778@wayne.edu

Pranally Desai

Wayne State University School of Medicine, hm3876@wayne.edu

*See next page for additional authors*

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**Authors**

Tiffany McKenney, Nathan Li, Eve Sherbin, Jeremy Taigman, Pranally Desai, and Brock Bradley

# SHARK CARTILAGE TREATS CANCER: FACT OR FICTION?

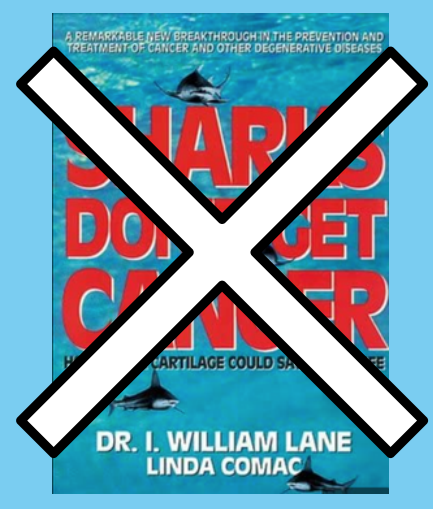
BRADLEY, B. DESAI, P. LI, N. MCKENNEY, T. SHERBIN, E. TAIGMAN, J.

ORANGE 31



## PSEUDOSCIENCE AND FALSE MARKETING

- The publication of the book "Sharks don't get Cancer" in 1992 popularized the myth that shark cartilage supplements are an effective treatment for cancer. The book was promoted on 60 Minutes.
- At the time, there was limited research that suggested sharks rarely get cancer. This was poorly used as support for this alternative medication.
- **Remember to seek peer-reviewed scientific research and consult your physician before considering untested or alternative treatments!**



[HTTPS://WWW.AMAZON.COM/SHARKS-DONT-GET-CANCER-CARTILAGE/DP/B0064XQ5MY](https://www.amazon.com/sharks-dont-get-cancer-cartilage/dp/B0064XQ5MY)

## CLINICAL TRIALS FIND NO EVIDENCE OF IMPROVED CANCER TREATMENT



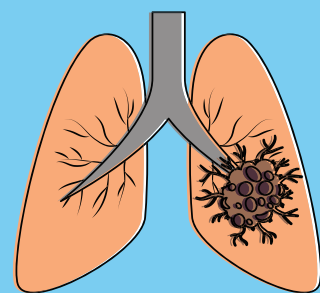
In a 2005 randomized, placebo-controlled, double-blinded, clinical trial, 83 patients with advanced cancers were either treated with chemotherapy and a placebo or chemotherapy and a shark cartilage product. The study found:

- No evidence that shark cartilage product improved survival or course of illness
- No indication that patients who received shark cartilage product had improved quality of life

## CLINICAL TRIALS DEMONSTRATE NO EVIDENCE OF IMPROVED SURVIVAL IN LUNG CANCER TREATMENT

In a 2000-2006 randomized, double-blinded, placebo-controlled, clinical trial, 379 patients with stage III NSCLC were either treated with chemotherapy and a placebo or chemotherapy and a shark cartilage extract. The study found:

- No evidence that shark cartilage extract improved survival
- No indication that shark cartilage extract demonstrates anticancer activity in the treatment of lung cancer

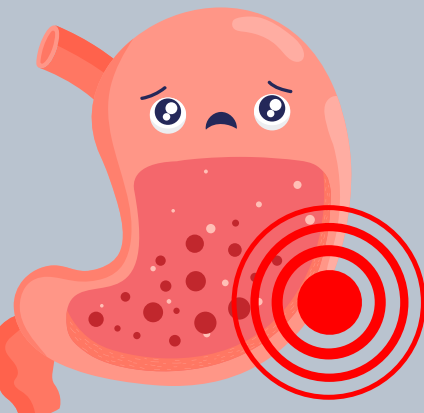


## ADVERSE SIDE-EFFECTS

Not only does shark cartilage not improve cancer treatment, **it is associated with many adverse side effects!**

Shark cartilage ingestion has shown to contribute to:

- GI intolerance (nausea, vomiting, constipation)
- Low blood pressure
- Fatigue
- High Calcium Levels
- Exacerbated asthma symptoms
- Alzheimer's disease due to neurotoxins!



### CITATIONS:

1. LOPRINZI CL, LEVITT R, BARTON DL, ET AL. EVALUATION OF SHARK CARTILAGE IN PATIENTS WITH ADVANCED CANCER: A NORTH CENTRAL CANCER TREATMENT GROUP TRIAL. *CANCER*. 2005;104(1):176-182. DOI:10.1002/CNCR.21107
2. LU C, LEE JJ, KOMAKI R, ET AL. CHEMORADIOTHERAPY WITH OR WITHOUT AE-941 IN STAGE III NON-SMALL CELL LUNG CANCER: A RANDOMIZED PHASE III TRIAL. *J NATL CANCER INST*. 2010 JUN 16;102(12):859-65. DOI: 10.1093/JNCI/DJQ179
3. MILLER, D R ET AL. "PHASE I/II TRIAL OF THE SAFETY AND EFFICACY OF SHARK CARTILAGE IN THE TREATMENT OF ADVANCED CANCER." *JOURNAL OF CLINICAL ONCOLOGY : OFFICIAL JOURNAL OF THE AMERICAN SOCIETY OF CLINICAL ONCOLOGY* VOL. 16,11 (1998): 3649-55. DOI:10.1200/JCO.1998.16.11.3649
4. OSTRANDER GK, CHENG KC, WOLF JC, WOLFE MJ. SHARK CARTILAGE, CANCER AND THE GROWING THREAT OF PSEUDOSCIENCE. *CANCER RESEARCH*. 2004;64(23):8485-8491. DOI:10.1158/0008-5472.CAN-04-2260