

alkaline diet and cancer

alkaline diet and cancer is a topic of growing interest in the fields of nutrition and oncology. The alkaline diet emphasizes consuming foods that are believed to influence the body's pH balance, potentially impacting cancer development and progression. This article explores the scientific basis of the alkaline diet, its proposed mechanisms related to cancer prevention and treatment, and evaluates existing research on the subject. Understanding the relationship between diet, body acidity, and cancer can help inform dietary choices for those seeking complementary approaches to conventional cancer therapies. The discussion includes the types of foods promoted within the alkaline diet, potential benefits and limitations, and expert perspectives on its role in cancer management. Readers will gain a comprehensive overview of how the alkaline diet is positioned within the broader context of cancer nutrition research. The article proceeds with a detailed table of contents to guide the exploration of this complex topic.

- Understanding the Alkaline Diet
- The Science Behind Body pH and Cancer
- Alkaline Diet Foods and Their Classification
- Potential Benefits of the Alkaline Diet in Cancer Prevention
- Limitations and Criticisms of the Alkaline Diet
- Scientific Studies on Alkaline Diet and Cancer Outcomes
- Practical Considerations for Incorporating the Alkaline Diet

Understanding the Alkaline Diet

The alkaline diet is a nutritional approach that focuses on consuming foods that are believed to help maintain a slightly alkaline pH in the body. Proponents argue that modern diets high in processed foods, meats, and sugars contribute to increased acidity, which may negatively affect health. This diet encourages the intake of fruits, vegetables, nuts, and legumes, which are considered alkaline-forming, while limiting acid-forming foods like red meat, dairy, and processed grains. The concept is based on the idea that diet can influence the body's acid-base balance, potentially impacting disease risk, including cancer. Understanding the foundational principles of this diet is essential to evaluating its relevance to cancer prevention and management.

Basic Principles of the Alkaline Diet

The alkaline diet classifies foods based on their potential renal acid load (PRAL), which estimates whether a food will produce acidic or alkaline byproducts after digestion. Alkaline-forming foods tend to increase bicarbonate levels, promoting a higher blood pH, while acid-forming foods increase acid

load. The diet promotes a 70-80% intake of alkaline-forming foods to counterbalance acid-forming ones. This balance is theorized to support optimal metabolic function and reduce disease risk.

Historical and Cultural Context

The alkaline diet is inspired by observations of traditional dietary patterns and the belief that ancient human diets were predominantly alkaline. While not rooted in mainstream nutritional science, it has gained popularity due to its emphasis on plant-based, nutrient-rich foods associated with various health benefits.

The Science Behind Body pH and Cancer

Body pH refers to the measure of acidity or alkalinity in bodily fluids, with a normal blood pH tightly regulated between 7.35 and 7.45. This homeostatic control is critical for physiological function. Cancer cells are often found in acidic microenvironments, which some hypothesize may promote tumor growth and metastasis. The relationship between systemic pH, dietary influence, and cancer biology is complex and still under investigation.

Acidity in the Tumor Microenvironment

Tumors commonly produce excess lactic acid due to altered metabolism known as the Warburg effect, resulting in localized acidity. This acidic environment can influence cancer cell invasion and resistance to therapy. However, systemic blood pH remains stable, and diet has minimal direct influence on blood acidity.

Body pH Regulation Mechanisms

The human body uses buffers, respiratory control, and renal function to maintain pH balance. Dietary changes affect urine pH more than blood pH, reflecting excretion processes. Therefore, claims that diet can significantly alter blood pH to impact cancer are scientifically unsupported.

Alkaline Diet Foods and Their Classification

Foods in the alkaline diet are categorized based on their acid or alkaline forming potential after digestion. This classification guides dietary choices aimed at promoting an alkaline internal environment. Understanding these categories helps clarify the diet's recommendations.

Alkaline-Forming Foods

These foods are typically rich in minerals such as potassium, magnesium, and calcium, which contribute to their alkalizing effect. Common alkaline-forming foods include:

- Leafy green vegetables (spinach, kale, Swiss chard)

- Fruits (lemons, limes, watermelon, avocados)
- Nuts and seeds (almonds, flaxseeds)
- Legumes (lentils, chickpeas)
- Herbal teas and certain spices

Acid-Forming Foods

Foods that are acid-forming tend to be high in protein and phosphorus, leading to acid production during metabolism. Examples include:

- Red meats and processed meats
- Dairy products
- Refined grains and sugars
- Caffeinated beverages and alcohol
- Processed and fast foods

Potential Benefits of the Alkaline Diet in Cancer Prevention

While the direct effect of the alkaline diet on cancer remains unproven, the diet's emphasis on plant-based foods and reduced processed food intake aligns with recognized cancer prevention strategies. Nutrient-rich, antioxidant-containing foods may help reduce oxidative stress and inflammation, factors implicated in cancer development.

Improved Nutrient Intake

The alkaline diet encourages consumption of fruits and vegetables, which are rich in vitamins, minerals, and phytochemicals associated with lower cancer risk. These nutrients support immune function and cellular health.

Reduced Inflammation and Oxidative Stress

Many alkaline-forming foods contain antioxidants and anti-inflammatory compounds that may help mitigate chronic inflammation, a known contributor to carcinogenesis. This may indirectly support cancer prevention.

Weight Management and Metabolic Health

By limiting processed and high-fat foods, the alkaline diet may promote healthy body weight and improve metabolic parameters, both of which reduce risk factors for certain cancers.

Limitations and Criticisms of the Alkaline Diet

Despite its popularity, the alkaline diet faces criticism for scientific inaccuracies and exaggerated health claims. It is important to understand these limitations to make informed dietary decisions.

Lack of Evidence for Systemic pH Alteration

Scientific consensus indicates that diet cannot significantly alter blood pH due to tight physiological regulation. Therefore, the premise that an alkaline diet can "alkalize" the body to inhibit cancer is not supported by clinical evidence.

Oversimplification of Cancer Complexity

Cancer is a multifactorial disease influenced by genetics, environment, and lifestyle. The alkaline diet's focus on pH oversimplifies these complexities and may mislead individuals seeking effective cancer prevention or treatment.

Potential Nutritional Imbalances

Strict adherence to alkaline diet restrictions without proper planning could lead to deficiencies, particularly in protein and essential nutrients found in acid-forming foods like dairy and meats.

Scientific Studies on Alkaline Diet and Cancer Outcomes

Research exploring the direct impact of the alkaline diet on cancer incidence, progression, and survival is limited and inconclusive. Most available studies focus on related dietary patterns rather than the alkaline diet specifically.

Observational and Clinical Studies

Some observational studies suggest diets rich in fruits and vegetables correlate with reduced cancer risk, but these do not isolate the effect of alkalinity. Clinical trials evaluating alkaline diet interventions specifically for cancer patients are scarce and often methodologically limited.

Urine pH as a Biomarker

Studies examining urine pH changes with alkaline diets confirm that diet influences urinary acidity but show no corresponding changes in blood pH or cancer outcomes. This reinforces the understanding of physiological pH control mechanisms.

Emerging Research and Future Directions

Ongoing research aims to clarify the relationship between diet-induced microenvironmental changes and cancer biology. More rigorous clinical trials are required to establish any role of the alkaline diet in cancer prevention or adjunct treatment.

Practical Considerations for Incorporating the Alkaline Diet

For individuals interested in adopting alkaline diet principles, practical guidance can ensure balanced nutrition while potentially supporting overall health.

Balanced Dietary Approach

Incorporating a variety of fruits, vegetables, whole grains, and lean proteins while moderating intake of processed and acid-forming foods can promote health without strict adherence to alkalinity concepts.

Monitoring Nutrient Intake

Ensuring adequate intake of essential nutrients such as protein, calcium, and vitamin B12 is important, especially when reducing animal-based foods. Consultation with healthcare providers or dietitians is recommended.

Complementary Role in Cancer Care

The alkaline diet should not replace conventional cancer treatments but may serve as part of a holistic approach emphasizing healthy eating patterns. Open communication with oncology teams is essential when making dietary changes during cancer treatment.

Frequently Asked Questions

What is the alkaline diet and how is it related to cancer

prevention?

The alkaline diet emphasizes consuming foods that are believed to affect the body's pH balance, such as fruits, vegetables, nuts, and legumes, while limiting acidic foods like meat and processed items. Some proponents claim it can help prevent cancer by creating a less favorable environment for cancer cells, but scientific evidence supporting this claim is limited.

Can following an alkaline diet cure cancer?

There is no scientific evidence that the alkaline diet can cure cancer. Cancer treatment requires evidence-based medical interventions such as surgery, chemotherapy, radiation, or immunotherapy. The alkaline diet may support overall health but should not replace conventional cancer treatments.

Does the body's pH change significantly based on diet?

The body's pH, particularly blood pH, is tightly regulated by physiological mechanisms and does not change significantly with diet. While certain foods can alter the pH of urine, they do not have a meaningful effect on blood or tissue pH levels.

Are there any benefits of the alkaline diet for cancer patients?

The alkaline diet encourages eating more fruits and vegetables and reducing processed foods, which can improve overall nutrition and well-being for cancer patients. However, its benefits are related to general healthy eating rather than altering body pH or directly affecting cancer cells.

What do medical experts say about the alkaline diet and cancer?

Medical experts generally agree that while a healthy diet rich in fruits and vegetables is beneficial, the alkaline diet's claims about changing body pH to prevent or treat cancer lack scientific support. Patients should follow evidence-based treatments and consult healthcare providers before making dietary changes.

Additional Resources

1. *The Alkaline Cure: The Remarkable Diet for Fighting Cancer, Flu, and Fatigue*

This book explores the principles of the alkaline diet and its potential benefits in combating cancer and other chronic illnesses. It offers a comprehensive guide to understanding body pH balance and how alkaline foods can promote healing. The author includes practical meal plans and recipes designed to support the immune system and reduce inflammation.

2. *Alkalize or Die: Superior Health Through Proper Alkaline-Acid Balance*

Focusing on the critical role of acid-base balance in overall health, this book delves into how an acidic environment can foster cancer growth. It presents scientific evidence supporting the alkaline diet as a preventative and complementary approach to cancer treatment. Readers will find detailed explanations of how diet influences cellular health and wellness.

3. *The pH Miracle: Balance Your Diet, Reclaim Your Health*

This bestseller explains the connection between diet-induced acidity and chronic diseases, including cancer. The author advocates for an alkaline-rich diet to restore the body's natural pH balance and enhance vitality. It includes success stories and practical advice on transitioning to a healthier, alkaline-focused lifestyle.

4. Alkaline Diet for Cancer: A Natural Approach to Healing

This book offers an in-depth look at how the alkaline diet may support cancer recovery and improve quality of life during treatment. It combines scientific research with holistic health principles to provide readers with actionable dietary strategies. Emphasis is placed on consuming whole, plant-based foods that help neutralize acidity.

5. The Cancer-Fighting Alkaline Diet

Written by a medical professional, this guide details how an alkaline diet can be used alongside conventional cancer therapies. It explains the science behind tumor environments and how maintaining alkaline pH levels may inhibit cancer progression. The book also includes recipes and lifestyle tips for sustaining an alkaline state.

6. Alkaline Living for Cancer Prevention and Recovery

This title focuses on using alkaline nutrition as a tool for both preventing cancer and aiding recovery post-diagnosis. It discusses the impact of lifestyle choices on the body's acidity and offers a practical framework for adopting an alkaline diet. Nutritional plans and detoxification techniques are highlighted to support overall wellness.

7. Beating Cancer with an Alkaline Diet

Combining patient testimonials with scientific insights, this book makes a compelling case for the alkaline diet's role in cancer management. It outlines how reducing dietary acid load can create an unfavorable environment for cancer cells. Readers are guided through step-by-step dietary changes designed to complement medical treatments.

8. The Acid-Alkaline Balance and Cancer: Understanding the Connection

This work provides a detailed analysis of the relationship between acid-alkaline balance and cancer development. It reviews current research on how acidity influences tumor growth and immune response. The author offers practical advice on adjusting diet and lifestyle to support a more alkaline internal environment.

9. Alkaline Diet Essentials: Cancer Prevention and Healing

A beginner-friendly introduction to the alkaline diet, this book focuses on its potential to prevent and aid in healing cancer. It explains the science in accessible terms and provides easy-to-follow guidelines for incorporating alkaline foods into daily meals. The book also addresses common misconceptions and offers tips for sustaining long-term health.

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alkaline diet and cancer: *Alkaline Diet for Cancer* Dr John Tyler, 2020-01-17 Some proponents of this diet claim that it can reverse cancer or support chemotherapy. There is no scientific evidence supporting these claims, and no studies have performed direct tests on this claim. However, significant evidence from a 2010 study suggests that reducing meat consumption and eating more fruits, vegetables, and whole grains might prevent cancer. The study looked at data from the 2010 European Prospective Investigation into Cancer and Nutrition. It found that consuming vitamin C, vitamin A, fiber, and a Mediterranean-style diet might reduce cancer risk. Some studies have shown that acidic environments help cancer cells grow. So the idea is that a diet high in alkaline foods (high pH) and low in acidic foods will raise the body's pH levels (make the body more alkaline) and prevent or even cure cancer. It should be noted that these are studies of cancer cells in a dish and do not represent the complex nature of how tumors behave in the human body. And food cannot change the pH of your blood. Research shows that there's no one diet or food that can cure cancer. But proper nutrition can help you feel your best during cancer treatment or at any time. That's why it's so important to talk to a doctor or a dietitian before beginning a new diet. This is true regardless of whether you have cancer. Different diet plans work for different people, and your doctor or dietitian can help you determine if a new diet will help you reach your health goals. Your dietitian can assess your nutrition and talk with you about your nutrition goals, which may change at different stages of treatment. Your dietitian can help limit your diet's adverse effects on your treatment, minimize side effects and help you cope with new food sensitive that you've developed since your diagnosis.

alkaline diet and cancer: Profound Guide To Alkaline Diet for Cancer Patients Dr Donald Wilson, 2019-11-26 There's so much information surrounding cancer and diet that it can be hard to separate the myths from the facts. That's especially true when it comes to trendy diets. The alkaline diet is one such trendy diet that often comes up in conversations about both cancer treatment and prevention. So, to learn more about this diet we talked to Maria Petzel, a senior clinical dietitian at MD Anderson. Some studies have shown that acidic environments help cancer cells grow. So the idea is that a diet high in alkaline foods (high pH) and low in acidic foods will raise the body's pH levels (make the body more alkaline) and prevent or even cure cancer. It should be noted that these are studies of cancer cells in a dish and do not represent the complex nature of how tumors behave in the human body. And food cannot change the pH of your blood. Research shows that there's no one diet or food that can cure cancer. But proper nutrition can help you feel your best during cancer treatment - or at any time. That's why it's so important to talk to a doctor or a dietitian before beginning a new diet. This is true regardless of whether you have cancer. Different diet plans work for different people, and your doctor or dietitian can help you determine if a new diet will help you reach your health goals.

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foods filled with chemical additives hinders our ability to look and feel our best. Fortunately, you can jumpstart your journey to optimal health with The 21-Day Alkaline Diet Plan featuring mineral-rich, plant-based recipes known to boost energy, promote weight loss, and fight disease. What sets this book apart: Benefits of the alkaline diet—Discover the science behind the diet, the importance of alkaline-acid balance in the body, and how alkaline-rich foods can help build muscle mass and stave off illnesses like diabetes and heart disease. 100 plant-based recipes—From snack foods to stews, dive into 100 delicious dishes that will keep you satisfied and energized throughout the day, like Basil and Olive Pizza, Red Thai Vegetable Curry, and Blueberry-Ginger Pudding. Each recipe includes prep and cook times, serving size, and nutritional content. 21-day meal plan—Sticking with an alkaline diet is simple thanks to the included 21-day meal plan that provides an excellent variety of foods and flavors. The plan also highlights the positive effects you can expect to experience: healthier skin, elevated mood, and reduced inflammation. Acid-alkaline rating chart—Learn what's best to ingest as you gain an understanding of how numerous foods and beverages rank on an acid-to-alkaline scale. Feel revitalized with fresh, pH-balanced meals on The 21-Day Alkaline Diet Plan.

alkaline diet and cancer: ALKALINE DIET For CANCER Patients 2021--2022 Wilfred Bells Ph D, 2021-09-24 This is a diet which includes foods that have high alkali and low acid content. A high-alkali foods list would include items such as squash, lettuce, tomatoes, celery, carrots, onions, spinach, cucumber, chickpeas, parsley, basil, olive oil, limes and lemons, watermelons, etc. On the other hand, food items like meat, eggs, pasta, sugar, caffeine, tobacco, white rice, etc., have high acid content. Studies have proved that certain types of cancer cells flourish well in an acidic environment, whereas, high alkali content in the blood stunts their growth and spread. Laboratory experiments have even proved that chemotherapy shows better cancer fighting results if the area surrounding the cancer has an alkaline environment. However, the counter argument refuting the claims of alkali-rich diet benefits with regards to cancer state that, while it has been proved in test-tube environment that alkalies are effective in killing cancer cells, it has not been proved in any actual human study. Also, refuters of this diet (which include many noted oncologists and medical practitioners) claim that the body has several mechanisms through which it automatically restores the pH balance, preventing increase or decrease of both acid and alkali content. Therefore, deliberately increasing alkali content of the body by switching to a high alkali diet won't have any effect for any significant length of time, thereby, ruling out the possibility of having sufficient time to interact with cancer cells.

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fabulous new you!

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There are few things that instill more fear in the hearts of human beings than the verdict you have cancer. For most patients, this is the equivalent of a death sentence, because of the extremely high mortality rate associated with most cancers - despite conflicting reassurances by medical doctors and costly treatment using orthodox methods. This fear is aggravated by the fact that patients generally have no misunderstanding of the disease and also do not understand that successful treatment consists of much more than orthodox medical treatment.

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About the Original Book: In *The Metabolic Approach To Cancer*, Nasha Winters and Jess Kelley explain how focusing on 10 key aspects of your health will help you prevent and fight cancer. They refer to these areas as the Terrain Ten and provide scientific evidence to show us how our 21st-century diet is negatively affecting each of these terrains. Winters and Kelley disprove a lot of what conventional medicine has led us to believe about this disease. They show us modern medicine has failed in tackling the true causes of cancer. The authors then explain how adopting deep nutrition can ultimately improve our health and enable us to stave off the effects of all forms of cancer. **DISCLAIMER:** This book is intended as a companion to, not a replacement for, *The Metabolic Approach to Cancer*. ZIP Reads is wholly responsible for this content and is not associated with the original author in any way.

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and surgery, helpful lifestyle changes are often overlooked. Adopting these changes puts you in control, which fosters a more optimistic outlook. Research shows that this helps to boost good health and longevity. Naturally Supporting Cancer Treatment shows you the evidence for: · the foods that help, those to avoid, and the best cancer diets · why stress reduction is valuable and the best ways to achieve it · the importance of exercise and the types that might suit you · the links between insomnia and cancer, and how to sleep better · how some toxins can cause cancer, and ways to avoid them · which supplements and herbs can help prevent cancer, support chemotherapy and radiation, and reduce side effects. 'What an inspired read. Jenny offers the perfect combination of patient and clinician's perspective. Confidently guiding you through the evidence based use of diet, lifestyle and complementary medicine. An empowering read for all oncology patients and their carers. I will be recommending this to patients in my care.' Naturopath Carla Wrenn (Oncology Support) Jenny Graves was diagnosed with leukaemia in 2009. After a stem cell transplant in 2010 and her subsequent recovery, she spent 4 years studying for an Advanced Diploma in Naturopathy. Here she shares what she learned to stay well.

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you do that. Your oncologist will want to know all of the supplements you are taking and why. This book includes the scientific abstracts and the information they need to find the full research studies. This will explain the “why” so you don’t have to. They may also want to geek out on all of this science as they rarely get exposed to research on natural cancer treatments. Finally, this book enables you to take some control over your cancer treatment or genetic predisposition. In fact, most of the recommendations in this book are great even if you are healthy, as they can help prevent cancer and improve your immune system, too. Whether you may have breast cancer, skin cancer, lung cancer, etc., improving the immune system and your body’s ability to fight cancer is always beneficial.

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alkaline diet and cancer: A Guidebook on Healthy and Unhealthy Foods and Diets Prof. (Dr.) Jai Paul Dudeja, 2025-05-19 In Sanskrit, they say: “Yatha annam tatha manam”. It means: “As is the food, so is the mind”. Your state of mind and your health depends on the type of diet or food you eat. With this theme in mind, I have written this book titled, “A Guidebook on Healthy and Unhealthy Foods and Diets: With Description of Over 80 Foods, Diets and Cuisines in the World”, for the benefit of each conscious citizen of the world, who is able to discriminate between healthy and unhealthy diets and foods. There are 79 chapters in this comprehensive guidebook. I sincerely feel that this guidebook will help all the persons of all the countries and of all the age groups (from one year to over 100 years) who wish to lead a mentally cheerful, physically healthy and joyful long life by taking healthy diets and avoiding unhealthy ones.

alkaline diet and cancer: So-Called Alternative Medicine (SCAM) for Cancer Edzard Ernst, 2021-08-10 Cancer victims are bombarded with misleading information about alternative medicine. Many such treatments try to sell false hope at inflated prices, and many promise a cure without side-effects. This book explains why alternative cancer cures are a fallacious concept. However, it also outlines the important role of alternative medicine in supporting cancer patients and improving their quality of life.

alkaline diet and cancer: Vital Signs for Cancer Prevention Xandria Williams, 2012-07-24 Vital Signs for Cancer Prevention suggests that cancer is a two-phase process. In Phase One you do not yet have, and may never have, cancer, but predisposing factors—poor diet and digestion, toxins,

adrenal exhaustion, and blood sugar imbalances, among others—can progressively and cumulatively increase your likelihood of developing it. Phase Two begins when the first permanent, transformed or cancerous cells form and are not destroyed by your defenses. Understanding that the predisposing factors of the first phase lead toward the second can help you prevent the onset of cancer by correcting or minimizing those that apply to you. Author Xandria Williams takes a natural therapies approach to healing cancer—one based on an understanding of nutrition, herbal medicine, homoeopathy, osteopathy, and energy medicine—rather than one based strictly on medicine, drugs, and surgery. She sees cancer as a problem that affects the whole body, not just the organ or system that is faulty, and thus her recommendations are systemic rather than aimed specifically at the tumor. Her main emphasis is on a series of scientifically validated tests (many of which can be self-administered) she proposes that provide vital information as to the state of your health. She also describes the CA profile, a test that can indicate the presence of permanent cancer cells within the first six weeks and possibly years before a tumor can be detected, allowing a crucial warning and the time to start an effective recovery program. Williams suggests a number of supplements, specific foods, and other remedies (detox procedures, stress reduction) to correct any of the predisposing factors that could, with a final trigger, move you from Phase One to Phase Two of the cancer process. You will learn how to avoid cancer if you have not yet developed it, avoid recurrences if you are in remission, and overcome cancer if you have been diagnosed with it.

alkaline diet and cancer: *Unique Healing 2*® Donna Pessin, 2012-05-09 This book offers a unique insight into the core issues of integrative health and healing. The program is simple, practical and workable for all ages. I am a practicing urologist who has personally benefited and has instituted similar protocols in my practice. A must read. Charles R. Wallace, Jr., MD, Urology/Uro-Surgery, Integrative Medicine The Unique Answer An amendment to the successful, groundbreaking, life-altering book *Unique Healing*, *Unique Healing 2* provides additional tools for your success in healing your bowel and body with this unique program, and eliminating your symptoms, weight problems, addictions, and illnesses in a way that crutches vitamins, supplements, drugs, exercise, acupuncture, massage, chiropractic, etc. You will find detailed information on over 175 symptoms, illnesses, and addictions to help you, and your children. Additional information for your understanding of why healing your bowel and body with this program eliminates these is provided. You are given very aggressive and effective recommendations for the correct crutches to use to eliminate or reduce these problems while you are healing your bowel and body. An entire section of this book is devoted to weight loss, and an explanation of how this unique program truly will lead you to long-term, effortless weight loss, without the need to diet or exercise (as well as to long term health, free of disease, unlike many other weight loss programs). You will read success stories from many of the followers of this program, and you will be directed to a large number of videos that correspond with the topics covered in this book for an even greater understanding of this process, and for even greater success.

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