

red light therapy eyes open or closed

red light therapy eyes open or closed is a common question for those exploring the benefits of red light therapy for skin health, eye wellness, and overall well-being. Whether you are new to light therapy or a seasoned user, understanding whether you should keep your eyes open or closed during treatments is vital for both safety and effectiveness. This article will explain how red light therapy works, its impact on eye health, recommended usage practices, potential risks, and expert guidance on whether to keep your eyes open or closed. By the end, you'll have a clear understanding of the best approach for your unique needs, supported by the latest research and industry standards. Read on to discover the essentials of safe, effective red light therapy and find answers to the most common questions surrounding "red light therapy eyes open or closed."

- Understanding Red Light Therapy
- The Science Behind Red Light Therapy and Eye Safety
- Red Light Therapy: Eyes Open or Closed?
- Benefits of Red Light Therapy for Eye Health
- Potential Risks and Precautions
- Expert Recommendations and Best Practices
- Frequently Asked Questions

Understanding Red Light Therapy

Red light therapy, also known as low-level laser therapy (LLLT) or photobiomodulation, utilizes specific wavelengths of red and near-infrared light to stimulate cellular activity and promote healing. The treatment is non-invasive and is commonly used for skin rejuvenation, pain reduction, wound healing, and even mood enhancement. Red light therapy devices range from handheld units to full-body panels, and sessions typically last between 5 and 20 minutes depending on the target area.

This therapy works by delivering energy deep into the tissues, enhancing mitochondrial function and increasing ATP production. As a result, red light therapy encourages repair and regeneration on a cellular level. Thanks to its growing popularity, people are increasingly curious about its effects on sensitive areas, particularly the eyes, and whether it is safe to keep them open during sessions.

The Science Behind Red Light Therapy and Eye Safety

How Red Light Affects the Eyes

Red light therapy uses wavelengths in the range of 620–750 nm, which are considered safe for superficial tissues. However, the eyes are among the most sensitive organs in the body. Exposure to intense light, even in the red spectrum, can potentially cause discomfort or temporary visual changes. Scientific studies indicate that low-level red light exposure is generally safe, but there are key factors to consider, such as the intensity of the light source and duration of exposure.

Research on Eye Safety in Red Light Therapy

Recent research has explored the therapeutic effects of red light on eye conditions, including age-related macular degeneration and retinal health. Some studies suggest that controlled exposure may actually benefit certain aspects of eye function, like improving mitochondrial efficiency within retinal cells. Nevertheless, most device manufacturers and clinicians recommend caution, especially when using high-powered devices or treating areas near the eyes.

- Wavelength and intensity: Lower intensity and appropriate wavelength are safer.
- Duration of exposure: Prolonged exposure increases risk.
- Device type: Medical-grade devices have stricter safety standards.

Red Light Therapy: Eyes Open or Closed?

Professional Guidelines on Eye Position During Treatment

The central question—should you keep your eyes open or closed during red light therapy—depends on the treatment purpose and device used. For most skin treatments, experts recommend keeping eyes closed to minimize direct exposure and prevent discomfort. Some devices come with protective goggles to further reduce risk, especially for facial therapy sessions.

If the therapy is specifically intended for eye health, such as treating dry eyes or retinal conditions, protocols may involve controlled, brief exposure

with eyes open, often under professional supervision. For general wellness or skin treatments, closing the eyes is the safer choice. Always consult device instructions and healthcare professionals for guidance tailored to your needs.

Comparing Eyes Open vs. Eyes Closed

- **Eyes Closed:** Reduces risk of glare, discomfort, and potential harm. Recommended for most users.
- **Eyes Open:** Used in targeted medical protocols for specific eye conditions, generally under expert supervision.

Benefits of Red Light Therapy for Eye Health

Potential Positive Effects

Emerging evidence suggests red light therapy may offer benefits for eye health when used carefully. Controlled exposure to red light can help improve mitochondrial function in retinal cells, potentially aiding in the management of age-related eye conditions. It may also support tear production and ocular surface healing for those with dry eyes. However, these benefits are most reliably achieved under clinical conditions and with appropriate safety measures.

Application Methods for Eye Health

- Direct application with low-intensity devices
- Short exposure times (seconds to minutes)
- Professional supervision for targeted treatments

It is essential to follow protocols specifically designed for eye therapy to avoid adverse effects while maximizing benefits.

Potential Risks and Precautions

Possible Side Effects

While red light therapy is considered safe for most individuals, improper use or excessive exposure can pose risks, especially for the eyes. Potential side effects include temporary visual discomfort, dryness, irritation, and, in rare cases, retinal damage. These risks are heightened when using high-powered devices or exposing the eyes directly to intense light.

Risk Reduction Strategies

1. Always follow manufacturer instructions and recommended exposure times.
2. Use protective eyewear for facial or head treatments.
3. Keep eyes closed during sessions unless medically supervised.
4. Consult an eye care professional if using red light therapy for eye health.
5. Monitor for any signs of discomfort or adverse effects.

Expert Recommendations and Best Practices

General Usage Advice

Industry experts and healthcare professionals recommend keeping eyes closed during most red light therapy sessions, particularly when treating the face or nearby areas. Protective goggles add an extra layer of safety and are strongly advised for high-intensity devices. If therapy is specifically intended for eye health, seek guidance from an ophthalmologist or qualified practitioner.

Choosing the Right Device and Protocol

When selecting a red light therapy device, consider its intended use and safety features. Medical-grade devices often include built-in safety protocols, while consumer devices may vary in intensity and design. Look for products with clear guidelines on eye safety and ensure you understand the recommended procedures for your specific treatment goals.

- Use devices with certified safety features.
- Start with shorter sessions and increase gradually.

- Never stare directly into the light source.
- Prioritize professional guidance for eye-related therapies.

Frequently Asked Questions

Understanding the nuances of red light therapy and its effects on the eyes is essential for safe and effective use. Below are answers to common questions about using red light therapy with eyes open or closed.

Q: Is it safe to keep my eyes open during red light therapy?

A: For most users, it is safer to keep eyes closed during red light therapy sessions, especially when treating the face or nearby areas. Controlled, brief exposure with eyes open may be used for specific eye health treatments under professional supervision.

Q: Do I need to wear protective goggles during red light therapy?

A: Wearing protective goggles is recommended during facial treatments or when using high-intensity red light therapy devices. Goggles provide added protection against potential eye discomfort or injury.

Q: Can red light therapy improve eye health?

A: Emerging research suggests that controlled red light exposure may help improve certain aspects of eye health, such as retinal cell function and dry eyes. These benefits are typically achieved under clinical protocols.

Q: What are the risks of red light therapy for the eyes?

A: Potential risks include temporary visual discomfort, irritation, dryness, and, rarely, retinal damage. These risks are minimized by keeping eyes closed and following device instructions.

Q: How long should I expose my eyes to red light

therapy?

A: Eye exposure to red light should be brief and only performed under professional guidance. Most general treatments recommend keeping eyes closed for the entire session.

Q: Can children use red light therapy safely?

A: Children should use red light therapy only under adult supervision and with devices designed for safety. Eye protection and adherence to recommended protocols are crucial.

Q: Are all red light therapy devices safe for use around the eyes?

A: Not all devices are created equal. Only use devices with certified safety features and clear instructions for eye protection, especially for facial or eye treatments.

Q: What should I do if I experience eye discomfort during red light therapy?

A: Discontinue use immediately and consult an eye care professional if you experience any discomfort, irritation, or changes in vision during or after red light therapy sessions.

Q: Is there a difference in eye safety between red and near-infrared light therapy?

A: Both red and near-infrared light therapy require caution around the eyes. Near-infrared light penetrates deeper and may have different safety considerations; always follow device-specific guidelines.

Q: Can I use red light therapy at home for eye conditions?

A: Home use for eye conditions should only be attempted with devices designed for ocular therapy and under the guidance of a healthcare professional to ensure safety and effectiveness.

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Red Light Therapy: Eyes Open or Closed? The Ultimate Guide

Are you considering red light therapy (RLT) but unsure whether to keep your eyes open or closed during treatment? This is a common question, and the answer isn't always straightforward. This comprehensive guide will delve into the nuances of RLT, exploring the benefits, potential risks, and the best practices for eye safety, ultimately helping you decide whether to keep your eyes open or closed during your red light therapy sessions.

Why Red Light Therapy? A Quick Overview

Before we tackle the eyes-open-or-closed dilemma, let's briefly review the potential benefits of red light therapy. RLT utilizes specific wavelengths of red and near-infrared light to penetrate the skin, stimulating cellular processes. This can lead to a range of potential benefits, including:

Reduced inflammation: RLT may help reduce inflammation in the skin and body.

Improved wound healing: It can accelerate the healing process for various wounds and injuries.

Pain relief: Many users report pain reduction after RLT sessions.

Anti-aging effects: Some studies suggest potential benefits for skin rejuvenation, reducing wrinkles and improving skin texture.

Hair growth stimulation: RLT is being explored for its potential to promote hair growth.

Red Light Therapy and Your Eyes: The Safety Debate

The question of whether to keep your eyes open or closed during red light therapy is crucial for safety and effectiveness. The answer depends largely on the specific device and the wavelengths of light emitted.

Should You Keep Your Eyes Open During Red Light Therapy?

While some low-level light therapy devices are marketed as safe with eyes open, it's generally recommended to keep your eyes closed or use protective eyewear. Here's why:

Potential Risks of Open Eyes During RLT:

Retinal damage: Though the risk is low with devices designed for home use, prolonged exposure to high-intensity light, especially in the blue and green spectrum, can potentially damage the retina. Most RLT devices used at home primarily use red and near-infrared light, which pose a lower risk, but precautions are still advised.

Eye strain and discomfort: Even low-intensity light can cause eye strain or discomfort with prolonged exposure, especially if your eyes are already sensitive.

The Safer Approach: Closing Your Eyes or Using Protective Eyewear

The safest approach is to simply close your eyes during your RLT session. This eliminates any potential risk of retinal damage or discomfort. Alternatively, if you find it difficult to relax with your eyes closed, using specifically designed red light therapy eye protection is a good option. Ensure the eyewear is specifically rated for use with red light therapy devices to guarantee proper protection.

Different Wavelengths, Different Considerations

It's important to note that not all red light therapy devices are created equal. The wavelength and intensity of the light emitted significantly influence the safety implications. Always consult the manufacturer's instructions for specific safety guidelines regarding eye protection. Devices using near-infrared light (NIR) often pose less risk than those with higher levels of red light, but precautions remain advisable.

Maximizing the Benefits of Your RLT Session

Regardless of whether you choose to keep your eyes open or closed, proper technique will help you maximize the benefits of your RLT session. This includes:

Consistent treatment: Follow the recommended treatment plan consistently for optimal results.

Proper distance: Maintain the correct distance from the device as instructed by the manufacturer.

Skin preparation: Cleanse the treatment area before each session.

Choosing the Right Red Light Therapy Device

Selecting the right device is essential for both safety and effectiveness. Look for devices that:

Specify wavelengths: Choose a device that clearly states the wavelengths emitted.

Have safety certifications: Look for devices with appropriate safety certifications and approvals.

Offer adjustable intensity: This allows you to customize the treatment to your comfort level.

Conclusion

While some sources might suggest it's safe to keep your eyes open during red light therapy, the safest practice is to keep your eyes closed or use protective eyewear. This minimizes any potential risk of retinal damage or discomfort. By choosing a reputable device, following manufacturer instructions, and prioritizing eye safety, you can maximize the benefits of red light therapy while ensuring your well-being.

FAQs

1. Can red light therapy damage my eyes if I keep them open for a short time? The risk of damage is generally low for short exposures with home-use devices, but it's best to err on the side of caution and close your eyes or wear protective eyewear.
2. What type of protective eyewear should I use for red light therapy? Use eyewear specifically designed and rated for red light therapy, not regular sunglasses.
3. Are there any long-term effects of keeping my eyes open during RLT? While immediate effects are unlikely, repeated exposure without protection could increase the risk of long-term eye problems.
4. Can I use red light therapy on my eyes directly to treat eye conditions? No, do not directly shine the light into your eyes. Consult an ophthalmologist for any eye-related concerns.
5. My red light therapy device doesn't mention anything about eye protection. What should I do? Contact the manufacturer for clarification. If they don't provide clear instructions, it's best to err on the side of caution and protect your eyes.

red light therapy eyes open or closed: Red Light Therapy: Miracle Medicine Mark Sloan, 2020-01-22 Supercharge your Health Without Negative Side Effects! Imagine a world without toxic drugs and endless lists of side effects. A world where a revolutionary new technology is used to accelerate healing of virtually all disease and conditions. Imagine red light therapy. Science writer Mark Sloan is the author of 3 bestselling books and is the creator of a popular blog delivering evidence-based health information which has helped tens of thousands of people get healthy. Red Light Therapy: Miracle Medicine is your ultimate guide to understanding red light therapy and how to use it to get the greatest possible results. If you like straightforward information, easy-to-follow techniques, and proven strategies, then you'll love Mark Sloan's next-level resource. Pick up your copy now by clicking the BUY NOW button at the top of this page!

red light therapy eyes open or closed: Red Light Therapy: A Comprehensive Guide to Red Light Treatment (The Complete Step-by-step Guide on How to Use Red Light Therapy) Neal Freeman, 101-01-01 Inside this comprehensive guide, you will discover the science and benefits of red light therapy. This guide will shed light on how you can use this technology to stimulate hair follicles, increase scalp circulation, and reduce inflammation, all while balancing key hormone levels important for hair health. Whether you're just starting to notice thinning strands or have been struggling with hair loss for years, this book gives you an in-depth look into all you need

to know about red light therapy for hair loss. Inside, you will discover:

- An overview of healing with red light therapy
- The history of red light therapy: its discovery, advancements in phototherapy, modern applications, research, and contemporary-era applications.
- Red light therapy's healing abilities and effects that assist in its therapeutic efficacy across various conditions.
- Some tools and equipment used to administer the treatment effectively.
- The various forms in which red light therapy is applied
- The treatment parameters for red light therapy

Red light therapy is the best-kept secret in healthcare today, and with this book, you will have all the information you need to unlock its full potential. Whether you are a beginner or a seasoned user, this book will provide valuable insights and tips to enhance your red light therapy experience. From understanding the science behind this innovative therapy to learning about the different types of devices available, you will be equipped with the knowledge to make informed decisions about your treatment and get the desired results.

red light therapy eyes open or closed: Unlock the Secrets of Red Light Therapy: The Complete Beginners Guide Daryl Stubbs, 2024-05-26

Beginners Guide to Red Light Therapy

Unlock the secrets of red light therapy with this comprehensive beginner's guide! Dive into the world of natural healing and discover how red light therapy can revolutionize your health and wellness routine. This essential handbook is crafted for those new to this innovative therapy, providing clear, concise, and practical information. Inside This Guide, You Will Learn:

- The science behind red light therapy and how it works.
- The numerous health benefits, from pain relief and skin rejuvenation to improved mental health.
- Step-by-step instructions on how to use red light therapy devices effectively at home.
- Expert tips on choosing the right equipment and maximizing results.
- Safety precautions and potential side effects to watch out for.

Perfect for health enthusiasts, wellness practitioners, and anyone looking to enhance their well-being naturally. Written in a friendly and accessible style, this guide makes the powerful benefits of red light therapy easy to understand and apply. Transform your health journey today with the Beginners Guide to Red Light Therapy!

red light therapy eyes open or closed: Photobiomodulation in the Brain Michael R. Hamblin, Ying-Ying Huang, 2019-07-13

Photobiomodulation in the Brain: Low-Level Laser (Light) Therapy in Neurology and Neuroscience presents the fundamentals of photobiomodulation and the diversity of applications in which light can be implemented in the brain. It will serve as a reference for future research in the area, providing the basic foundations readers need to understand photobiomodulation's science-based evidence, practical applications and related adaptations to specific therapeutic interventions. The book covers the mechanisms of action of photobiomodulation to the brain, and includes chapters describing the pre-clinical studies and clinical trials that have been undertaken for diverse brain disorders, including traumatic events, degenerative diseases and psychiatric disorders.

- Provides a much-needed reference on photobiomodulation with an unprecedented focus on the brain and its disorders
- Features a body of world-renowned editors and chapter authors that promote research, policy and funding
- Discusses the recent and rapid accumulation of literature in this area of research and the shift towards the use of non-invasive techniques in therapy

red light therapy eyes open or closed: Healing with Red Light Therapy Stephanie Hallett, 2020-04-28

Discover the power of low-level laser therapy (aka photobiomodulation) for the pain-free treatment of arthritis, psoriasis, hair loss, acne, and more. Red light therapy is dramatically changing the world of health care. Studies show using red and near-infrared light can have incredible effects, from managing chronic pain to even slowing the signs of aging. This natural, drug-free, red light therapy treatment can be found at your doctor's office, spa, and even in the comfort of your own home. These at-home lights are increasing in popularity as they become more affordable and accessible online, but using them safely and effectively is crucial. With so many different devices, online advisories, and treatment options, this book is your go-to guide to understanding the ins and outs of this revolutionary therapy. Inside you'll find information about:

- How light therapy works
- Easy-to-understand breakdown of recent studies
- Different light source

devices and types The importance of correct dosage Treatment of chronic pain, skin aging and other conditions, joint pain, and more With patient testimonials and interviews with leading health professionals, *Healing with Red Light Therapy* will give you all the tools you need to harness the beneficial power of light therapy.

red light therapy eyes open or closed: The Ultimate Guide to Red Light Therapy Ari Whitten, 2018-07-12 If there were a pill that was scientifically proven to help you look 10 years younger, lose fat, improve hormonal health, fight pain and inflammation, increase strength/endurance, heal faster, improve your brain health and increase your energy levels, it would be a billion-dollar blockbuster drug. Hundreds of millions of people would be told to start taking it by their doctors every day. And doctors all over the world would call it a miracle drug. Here's the crazy part: That drug exists. But it's not a pill. It's red light therapy! Did you know that light has the power to heal your body and optimize your health? Of course, everyone knows about the importance of vitamin D from sunlight (from UV light). But few are aware that there is another type of light that may be just as vital to our health - red and near-infrared light. Think it's all just hype? Think again! Believe it or not, there are now over 3,000 peer-reviewed scientific studies showing incredible health and anti-aging benefits of red and near-infrared light therapy. But it gets even better... While you used to have to spend \$100 or more to get treatments done in a medical or anti-aging clinic (where this technology has been used for decades), new breakthroughs have allowed us to harness these benefits in the comfort of our own home, without the need to spend thousands on an expensive laser device or \$100 per treatment at a health/anti-aging clinic. We can now do red light therapy at home, as much as we want, at a tiny fraction of the cost. In this book, Ari Whitten - bestselling author, health expert and founder of The Energy Blueprint - cuts through all the confusion, myths and pseudoscience around this complex topic, and takes you on a deep dive into the science of how to use red/near-infrared light therapy to improve your health, your body and your life in dozens of ways. Inside this book, you'll learn how to use red/near-infrared light therapy to: - Fight skin aging, wrinkles, and cellulite and look 10 years younger - Lose fat (nearly twice as with diet and exercise alone) - Rid your body of chronic inflammation - Fight the oxidative damage that drives aging - Increase strength, endurance, and muscle mass - Decrease pain - Combat hair loss - Build resilience to stress at the cellular level - Speed up wound/injury healing - Combat some autoimmune conditions and improve hormonal health - Optimize your brain function and mood - Overcome fatigue and improve energy levels You'll also get critical information to get the best results, including: - Specific dosing guidelines for every type of treatment (and how to avoid common mistakes) - The 5 bioactive types of light that affect human cell function and human health - Which health issues respond best to red/near-infrared light therapy - The big mistakes people make when giving themselves red light treatments (and exactly how to do treatments to get the best results) - The best light devices to get (and why most devices on the market are a waste of money) - Exact protocols for how to use red/near-infrared light therapy for everything from fat loss, to brain optimization, to skin anti-aging Optimal light exposure habits are as essential to good health as good nutrition habits. But the big problem is that, just as many people eat diets of processed junk food and fast food, most people are eating light diets of junk light and end up with chronic mal-illumination. This book will show you how to fix that. Red and near-infrared light therapy is one of the biggest health breakthroughs in the last half century. If you're serious about your health and improving your body, it's time to start using this powerful tool in your life. Buy this book NOW to become the healthier, happier, leaner, stronger, youthful person you've always known you could be. You deserve it! Pick up your copy today by clicking the BUY NOW button at the top of this page!

red light therapy eyes open or closed: Retinal Degenerative Diseases and Experimental Therapy Joe G. Hollyfield, Robert E. Anderson, Matthew M. LaVail, 2007-09-04 To create a forum for scientists and clinicians interested in degenerative retinal diseases, we began in 1984 to organize a biennial symposium on Retinal Degeneration as a satellite meeting of the International Congress of Eye Research. The timing and varying location of these meetings provides an important assembly for investigators from throughout the world to convene for presentation of their new findings on the

causes and potential therapies for degenerative retinal disorders. The VIII International Symposium on Retinal Degeneration was held from July 28-25, 1998, at the Hotel Vier Jahreszeiten in Schluchsee, a small town in the Black Forest of southwestern Germany. Most of the participants in this meeting contributed to this volume, and we are appreciative of the efforts of each author in making this publication possible. The research presented at the meeting, and described in this proceedings volume, reflects a strong emphasis on the molecular genetic approach to understanding these disorders. Several of the papers provide important new insights into the mechanism of photoreceptor degeneration and cell death. A number of the studies are targeted at retarding or reversing the degeneration process. Included for the first time are presentations from all the principal laboratories involved in the field of visual prostheses-implant (chip) technology-in which investigations are targeted at restoring vision in eyes that have lost photoreceptor cells. A variety of diagnostic, clinical, histopathological, and physiological assessments of retinal degeneration in patients are also included.

red light therapy eyes open or closed: Yoga & Mindfulness Therapy Workbook for Clinicians and Clients Alex Simpkins, Annellen Simpkins, 2014-04-01 Bringing together philosophy and science with hands-on exercises, journaling, and charts, this practical workbook by psychologists and best-selling authors C. Alexander Simpkins, Ph.D., and Annellen M. Simpkins, Ph.D., is organized to include: The tools to get you started: preliminaries, quick tips, neuroscience and efficacy research Clear instructions to guide you in the practices of yoga and mindfulness Application of the practice to anxiety, stress, depression, trauma and substance abuse An appendix created especially for the clinician answers questions about how and when to introduce the techniques, ways to adapt to your office, and special ways to address children and seniors "The Simpkins have unified three areas that have rarely, if ever, been pulled together: yoga (not just the body moves, but the deeper psychological, emotional and spiritual aspects as well), mindfulness practices and therapeutic methods...filled with exercises, tips and inspiring stories." - Bill O'Hanlon, featured Oprah guest and author of *Out of the Blue: Six Non-Medication Ways to Relieve Depression*

red light therapy eyes open or closed: *Cumulated Index Medicus* , 1972

red light therapy eyes open or closed: *5th International Conference on Biomedical Engineering in Vietnam* Vo Van Toi, Tran Ha Lien Phuong, 2014-11-18 This volume presents the proceedings of the Fifth International Conference on the Development of Biomedical Engineering in Vietnam which was held from June 16-18, 2014 in Ho Chi Minh City. The volume reflects the progress of Biomedical Engineering and discusses problems and solutions. It aims identifying new challenges, and shaping future directions for research in biomedical engineering fields including medical instrumentation, bioinformatics, biomechanics, medical imaging, drug delivery therapy, regenerative medicine and entrepreneurship in medical devices.

red light therapy eyes open or closed: *Enchantment and Intervention in Family Therapy* Stephen R. Lankton, Carol H. Lankton, 2014-01-09 First published in 1986. Motivation is different for different cultures, apparent even in the recent contrast between our experience of the relatively stable residential neighborhood and the shifting sands of the beach community. The bait is different for each different fisher. Each group has a goal determined by collective needs. The needs of individual members of each group are defined by an interplay of biology, personal history, culture, family, values, peers, expected sanctions, chronological age, psychological age, and environmental circumstances. This book is a composite assemblage of teachings from five different workshops in the U.S. Primarily, it has been created from what the author's feel are the most representative of several family therapy workshops they have conducted, some individually and some together. These took place in Boston, Massachusetts; Austin, Texas; Newport, Rhode Island; Phoenix, Arizona; and Pensacola Beach, Florida.

red light therapy eyes open or closed: *Handbook of Low-Level Laser Therapy* Michael R. Hamblin, Tanupriya Agrawal, Marcelo de Sousa, 2016-10-14 Low-Level Laser Therapy (LLLT) also known as photobiomodulation is almost 50 years old, and recently has been getting increasing acceptance from the scientific, medical, and veterinary communities. Discoveries are constantly

being made about the cellular and molecular mechanisms of action, the range of diseases that can be treated is also rising, and home use LED devices are becoming common. This book compiles cutting-edge contributions from the world's leading experts in Photobiomodulation and LLLT. Chapters cover general concepts, mechanisms of action, in vitro studies, pre-clinical animal studies, veterinary applications and a wide range of clinical topics. Edited by Michael Hamblin from Massachusetts General Hospital and Harvard Medical School, aided by two prominent researchers (Marcelo Sousa and Tanupriya Agrawal), this book will appeal to anyone involved in the basic science, translational aspects and clinical applications of LLLT.

red light therapy eyes open or closed: *American Journal of Ophthalmology* , 1923

red light therapy eyes open or closed: *Comparative Biology and Evolutionary Relationships of Tree Shrews* W. Patrick Lockett, 1980-08 Tree shrews are small-bodied, scansorial, squirrel-like mammals that occupy a wide range of arboreal, semi-arboreal, and forest floor niches in Southeast Asia and adjacent islands. Comparative aspects of tree shrew biology have been the subject of extensive investigations during the past two decades. These studies were initiated in part because of the widely accepted belief that tupaiids are primitive primates, and, as such, might provide valuable insight into the evolutionary origin of complex patterns of primate behavior, locomotion, neurobiology, and reproduction. During the same period, there has been a renewed interest in the methodology of phylogenetic reconstruction and in the use of data from a variety of biological disciplines to test or formulate hypotheses of evolutionary relationships. In particular, interest in the comparative and systematic biology of mammals has focused on analysis of phylogenetic relationships among Primates and a search for their closest relatives. Assessment of the possible primate affinities of tree shrews has comprised an important part of these studies, and a considerable amount of dental, cranio skeletal, neuroanatomical, reproductive, developmental, and molecular evidence has been marshalled to either corroborate or refute hypotheses of a special tupaiid-primate relationship. These contrasting viewpoints have resulted from differing interpretations of the basic data, as well as alternative approaches to the evolutionary analysis of data.

red light therapy eyes open or closed: Making Eye Health a Population Health Imperative National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Board on Population Health and Public Health Practice, Committee on Public Health Approaches to Reduce Vision Impairment and Promote Eye Health, 2017-01-15 The ability to see deeply affects how human beings perceive and interpret the world around them. For most people, eyesight is part of everyday communication, social activities, educational and professional pursuits, the care of others, and the maintenance of personal health, independence, and mobility. Functioning eyes and vision system can reduce an adult's risk of chronic health conditions, death, falls and injuries, social isolation, depression, and other psychological problems. In children, properly maintained eye and vision health contributes to a child's social development, academic achievement, and better health across the lifespan. The public generally recognizes its reliance on sight and fears its loss, but emphasis on eye and vision health, in general, has not been integrated into daily life to the same extent as other health promotion activities, such as teeth brushing; hand washing; physical and mental exercise; and various injury prevention behaviors. A larger population health approach is needed to engage a wide range of stakeholders in coordinated efforts that can sustain the scope of behavior change. The shaping of socioeconomic environments can eventually lead to new social norms that promote eye and vision health. Making Eye Health a Population Health Imperative: Vision for Tomorrow proposes a new population-centered framework to guide action and coordination among various, and sometimes competing, stakeholders in pursuit of improved eye and vision health and health equity in the United States. Building on the momentum of previous public health efforts, this report also introduces a model for action that highlights different levels of prevention activities across a range of stakeholders and provides specific examples of how population health strategies can be translated into cohesive areas for action at federal, state, and local levels.

red light therapy eyes open or closed: Colour Healing Manual Pauline Wills, 2013-08-28 The

healing properties of colour and light have been recognised since ancient times; today colour therapy techniques are used to great effect in a range of complementary therapies and for personal wellbeing. This book provides a comprehensive introduction to colour healing and offers step-by-step instructions for treatment. The opening chapters provide an overview of the science behind light and colour, and a brief history of colour healing from Ancient Greece to modern day. The characteristics of different colours are then given, as well as an explanation of how each colour relates to particular body parts and the major and minor chakras. The core of the book offers a complete treatment programme, teaching diagnostic techniques and a variety of approaches including healing with prana energy, healing with touch, healing with a colour therapy instrument, and absent healing. With useful illustrations and diagrams throughout, this book will be an essential guide for colour therapists, colourpuncture practitioners, kinesiologists, reflexologists and energy healers, as well as anyone with an interest in the restorative power of colour.

red light therapy eyes open or closed: Eye emergency manual , 2007

red light therapy eyes open or closed: New Insights into Brain Imaging Methods for Rehabilitation of Brain Diseases Guang-qing Xu, Ying Shen, Bin Hu, Feng Zhang, 2024-03-28
Brain diseases such as stroke, Alzheimer's disease, and Parkinson's disease cause dysfunction in multiple body systems. Motor dysfunction, cognitive impairment, dysphagia, and emotion disorders are frequently observed in patients with brain diseases. As the dysfunctions are associated with alterations in the brain, brain imaging methods such as functional MRI (fMRI), electroencephalography (EEG), functional near-infrared spectroscopy (fNIRS), and transcranial magnetic stimulation (TMS) are essential for investigating the neural mechanisms underlying the dysfunction caused by brain diseases. Brain imaging methods are also critical for understanding the neural mechanisms for the effectiveness of therapeutic or rehabilitative interventions that promote recovery from brain diseases. The usage of these brain imaging methods would deepen our understanding of brain diseases and potentially translate this knowledge to improve effectiveness of rehabilitative interventions for brain diseases.

red light therapy eyes open or closed: *American Medical Association Family Medical Guide* , 2011-01-25
The Long-Awaited Revision of the Bestselling Family Health Guide This completely updated fourth edition of our bestselling health reference is comprehensive, easy to understand, and even more user-friendly than the previous editions. We're excited to provide our patients with an invaluable resource to help them become more involved in their own health care. We think this is a book that belongs on the bookshelf in every home. -AMA President John C. Nelson, MD, MPH
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2005-01-01 The value of yoga and nature-cure techniques for maintaining and preserving health is now recognised not only by therapists but also by patients. Yoga keeps the body healthy and the mind alert. It has a relaxing effect on the practitioner, and in combination with nature cure, it can become the ideal healing method. This book shows how health can be maintained and improved through yoga and how diseases can be cured through natural methods.

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This book provides a full spectrum of information from the practical to the spiritual. Find out how to decorate with color to create specific moods. Learn how to dress for success and interpret others' personalities by the colors they wear. Improve your health by using colored lights and color-based meditations and visualizations and eating foods of certain color.

red light therapy eyes open or closed: Evidence-Based Medicine Guidelines Duodecim Medical Publications, 2005-03-04 Evidence-Based Medicine Guidelines fills the demand for a handbook discussing the diagnosis and treatment of a wide range of diseases and conditions encountered by health care professionals. The title was first published in Finland by the Finnish Medical Society, where it is now considered to be the single most important support tool for the physicians' decision making in their daily work. What sets EBM Guidelines apart from competing books? Provides physicians with fast and easy access to practice guidelines based on the best available research evidence Covers practically all medical conditions encountered in general practice Developed by over 300 experienced general practitioners and specialists worldwide Includes both diagnostic and therapeutic guidelines, and recommendations on diagnostic tests and drug dosage Presented in a user-friendly format with self contained chapters based on clinical subjects Clear and concise explanations of all available evidence results in the guideline for treatment The strength of evidence is graded from A-D making this title a quick and easy reference whenever and wherever you need it! Assumes no prior knowledge of EBM or statistics - all the work of searching and appraisal has been done for you! Seeks to include guidelines where clinical evidence is incomplete or unavailable Contains full-colour photographs and tables throughout Easy-to-read and fast support at the point of care - EBM Guidelines: Summarises the best available evidence - Cochrane reviews - DARE abstracts - Clinical Evidence topics - original articles in medical journals - abstracts in the Health Technology Assessment Database - NHS Economic Evaluation Evaluates and grades the strength of all individual evidence from A (Strong research-based evidence) to D (No scientific evidence) Suggests guidelines based on clinical evidence. If clinical evidence is inadequate or missing, an expert panel evaluate all other available information and suggests the appropriate guideline With over 1000 problem-orientated or disease-specific guidelines including reference to evidence summaries for all guidelines, this title is the most extensive collection of guidelines for primary care today. Here are just a few examples of the raving reviews for Evidence-Based Medicine Guidelines: An excellent resource... quick to use, even during consultations...very helpful to check whether our preferred diagnostic and therapeutic methods are adequate...competent suggestions based on real evidence... —Heinz Bhend, PRIMARY CARE clinically useful answers...easy-to-read ...this resource is worth using... —Carl Heneghan, Centre for Evidence-Based Medicine, Oxford, UK, EVIDENCE-BASED MEDICINE Journal

red light therapy eyes open or closed: Induced After Death Communication Allan Botkin, 2014-05-01 "Dr. Botkin has hit upon a fascinating and powerful new tool that may not only help clients cope with their losses, but also breaks new ground in understanding life and death." —Bruce Greyson, MD, bestselling author of After "A must read for all serious students of death and dying."—Raymond Moody, MD, PhD Induced After Death Communication (IADC) is a therapy for grief and trauma that has helped thousands of people come to terms with their loss by allowing them the experience of private communication with their departed loved ones. This is the definitive book on the subject. Botkin, a clinical psychologist, created the therapy while counseling Vietnam veterans in his work at a Chicago area VA hospital. Botkin recounts his initial—accidental—discovery of IADC during therapy sessions with Sam, a Vietnam vet haunted by the memory of a Vietnamese girl he couldn't save. During the session, quite unexpectedly, Sam saw a vision of the girl's spirit,

who told him everything was okay; she was at peace now. This single moment surpassed months--years--of therapy, and allowed Sam to reconnect with his family. Since that 1995 discovery, Botkin has used IADC to successfully treat countless patients—the book includes dozens of case examples—and has taught the procedure to therapists around the country. This is the inside story of a revolutionary therapy that will profoundly affect how grief and trauma are understood and treated.

red light therapy eyes open or closed: *Visual Development, Diagnosis, and Treatment of the Pediatric Patient* Robert H. Duckman, 2006 Written by highly experienced clinicians, this volume is the first text to integrate basic concepts of vision development with clinical diagnosis and treatment of pediatric vision disorders. Coverage begins with a thorough review of the normal course of vision development, focusing on the years from birth through preschool. The next section presents a comprehensive, step-by-step clinical methodology for evaluating visual function. Subsequent chapters discuss treatment strategies, including parameters for prescribing lenses for children, notes on when not prescribing is appropriate, options in strabismus and amblyopia, and visual therapy for very young children. More than 200 illustrations complement the text.

red light therapy eyes open or closed: *The Complete SAQ Study Guide* Schofield Andrew, Paul Schofield, 2019-09-12 This detailed guide is a must for medical students preparing for clinical attachment and final exams. Its wide-ranging approach is also ideal for those sitting GP entrance exams. Presenting short answer questions encompassing the entire current curriculum, this informative revision aid covers all bases.

red light therapy eyes open or closed: *Enter Evil* Linda Ladd, 2009-08-04 In this psychological thriller following *Die Smiling*, an apparent suicide draws a detective toward a demented killer who likes to play games. His doctors are the best in the world, his father one of the most powerful men in the state. But they couldn't stop Mikey from succumbing to his darkest demons—the ones inside his head. The ones who told him it was time to end it all . . . It should have been an open-and-shut case, especially since detective Claire Morgan's lover, Dr. Nicholas Black, recognized Mikey as a former troubled patient. Then Claire finds another body in Mikey's home. Curled inside an oven, charred beyond recognition, the method of murder mind-boggling . . . Claire's only lead is a beaded bracelet around each victim's wrist, believed to ward off the "evil eye." But by the time she discovers what the dead were afraid of, she's trapped in a mind game of her own—with a brilliant, sadistic killer. And this time, there's a method to the madness . . . Praise for *Enter Evil* "This book was everything I had hoped for and more as it ratchets up the suspense with surprising twists and turns. Linda is a brilliant writer, and I can't wait for more of her books." —Fresh Fiction

red light therapy eyes open or closed: *Illustrated Manual of Nursing Practice* , 2002 Completely revised and updated, this broad yet comprehensive edition contains twenty-nine chapters on nursing issues and clinical practice. Topics cover practice and process, documentation, legal issues, health promotion, physical assessment, I.V. therapy, surgical care, and more. Disorders are organized by body system and feature an overview of anatomy and physiology, assessment, diagnostic tests, medication, treatment, and home care, with coverage of care for maternal-neonatal, pediatric, geriatric, emergency, and psychiatric patients. Added features include grabbing nursing procedure graphics, complementary therapies, clinical pathways, and cultural information. Over 1,000 illustrations, charts, and graphs enhance the text, with a new appendix relating Internet sites for nurses.

red light therapy eyes open or closed: *Webvision* Helga Kolb, Eduardo Fernandez, Ralph Nelson, 2007

red light therapy eyes open or closed: *The American Journal of Physical Therapy* Charles Raymond Wiley, 1926

red light therapy eyes open or closed: *Living Younger Longer Using Red Light Therapy* John Iovine, 2021-09-02 Red Light Therapy is not a hoax. On the contrary, it's the best-kept secret for the last 40 years. Also called Photobiomodulation, this therapy has been the subject of over 5000 clinical scientific studies. These studies demonstrate the benefits of Red Light Therapy for everyone, but especially for seniors. Photobiomodulation enhances energy production of the mitochondria that

boosts recovery and performance across the physiological spectrum. The best part about this therapy is that it is non-intrusive and can easily be performed at home. 5000 Clinical Scientific Studies show Red Light Therapy helps: Increase hair growth and reduce hair loss Increase muscle endurance, strength, and recovery Supports weight and fat loss Use as a treatment for arthritis and joint inflammation Improves skin rejuvenation Treatment for skin conditions like eczema Improves brain's cognitive function Treatment for neurodegenerative disease Anti-aging and longevity support This book provides critical information for making informed decisions for purchasing Red Light Therapy equipment. Information on the proper eyewear for protecting your eyes from the dangers of NIR light. How to calculate Red Light Therapy dosages. Treatment guidelines for Red Light Therapy to begin at home to maximize your health.

red light therapy eyes open or closed: Lasers, Lights and Other Technologies Maria Claudia Almeida Issa, Bhertha Tamura, 2018-02-23 The series "Clinical Approach and Procedures in Cosmetic Dermatology" intends to be a practical guide in Cosmetic Dermatology. Procedures in cosmetic dermatology are very popular and useful in medicine, indicated to complement topical and oral treatments not only for photodamaged skin but also for other dermatosis such as acne, rosacea, scars, etc. Also, full-face treatments using peeling, lasers, fillers and toxins are increasingly being used, successfully substituting or postponing the need for plastic surgeries. Altogether, these techniques not only provide immediate results but also help patients to sustain long-term benefits, both preventing/treating dermatological diseases and maintaining a healthy and youthful skin. Throughout this series, different treatments in Cosmetic Dermatology will be discussed in detail covering the use of many pharmacological groups of cosmeceuticals, the new advances in nutraceuticals and emerging technologies and procedures. This volume addresses the most important physical approaches in cosmetic dermatology, disclosing their uses and advantages. Here are discussed in detail the applicability of lasers and other lights, photodynamic therapy, radiofrequency, ultrasound and transepidermal drug delivery.

red light therapy eyes open or closed: Physician Assistant Board Review - E-Book James Van Rhee, Jonathan Kilstrom, Stephanie Neary, Mary Ruggeri, 2023-04-29 Ace the high-stakes PANCE and PANRE/PANRE-LA exams with this concise, well-organized review tool! Physician Assistant Board Review: PANCE Certification and PANRE Recertification, 4th Edition, contains the need-to-know concepts that are essential for exam success, presented in a logical, straightforward manner for efficient and effective study. Nearly 200 questions and answers with rationales, plus two, 300-question test banks online, help you focus on the most important content and simplify your preparation for the boards. - Uses a concise, outline format, with content written to align with the new PANCE and PANRE/PANCE-LA blueprint, for comprehensive coverage of all key concepts. - Provides nearly 200 up-to-date questions and answers with rationales, plus 600 updated and revised test bank questions online, all aligned with PANCE item architecture. - Includes a new chapter on Professional Practice, covering topics such as medical ethics, informatics, communication, public health, risk management, and more. - Updated pharmacology chapter featuring easy-to-review tables of important drugs. - Contains more than 200 tables and figures throughout, offering a visual aid for review. - Features sections covering various test-taking strategies to help you increase your score.

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red light therapy eyes open or closed: Photobiomodulation for the Brain Farzad Salehpour, Saeed Sadigh-Eteghad, Javad Mahmoudi, Farzin Kamari, Paolo Cassano, Michael Richard Hamblin, 2023-08-19 Photobiomodulation for the Brain: Photobiomodulation Therapy in Neurology and Neuropsychiatry collects scientific evidence covering a broad range of topics, including the optimum dosimetry, treatment regimens, irradiation sites, irradiance and fluence, treatment times, and possible side effects of this neuromodulation therapy. Over the past two decades, brain photobiomodulation (PBM) therapy has been introduced as an innovative modality for stimulating neural activity to improve brain function and is predicted to become a promising strategy for neurorehabilitation in the coming years. This book introduces PBM therapy to the worldwide

medical community, providing worthwhile scientific insights and promoting the acceptance of this field among neurologists, psychiatrists, neurorehabilitation practitioners, and physiotherapists, as well as neuroscience clinicians and researchers. From a physics point of view, scientists in the photonics, medical physics, and light-dosimetry fields will also benefit from the book.

red light therapy eyes open or closed: Managing Stress: Skills for Anxiety Reduction, Self-Care, and Personal Resiliency Brian Luke Seaward, 2023 Managing Stress provides a comprehensive approach to stress management, honoring the balance and harmony of the mind, body, spirit, and emotions. Referred to as the authority on stress management by students and professionals, this book equips students with the tools needed to identify and manage stress while teaching them how to strive for health and balance. The holistic approach gently guides the reader to greater levels of mental, emotional, physical, and spiritual well-being by emphasizing the importance of mind-body-spirit unity--

red light therapy eyes open or closed: Tinderbox Lynn Alsup, 2023-09-12 Lynn watched her beloved Clare, newly adopted from Haiti, crawl the house in a frantic search for her lost mother. Preschool Clare enchanted with belly laughs and shining smiles. Also, thrashed and wailed in her room as Lynn crouched on her own bed—pillow clutched over her head—her past trauma triggered. A pre-teen trip to Haiti brought sunshine, ruby red hibiscus blooms, and the music of Haitian Creole. Back at home, Clare shattered mirrors into shards on the subway tiles of their bathroom. And just before her thirteenth birthday, as she and Lynn walked hand in hand through their neighborhood, Clare calmly detailed her plan to die. Over the next years, Lynn and her family walked through psychiatric hospitals, along the Appalachian Trail, and in and out of residential placements, marriage, faith, and sanity barely surviving the journey. But then Lynn learned about fetal alcohol spectrum disorder (FASD)—a source of neurodivergence in one in twenty American children—and discovered the FASCETS Neurobehavioral Model, a strengths-based approach to celebrating and accommodating neurodiversity. It was a discovery that transformed them all. At times joyous, at times harrowing, but always full of love, Tinderbox is a mother's story of brokenness, unrelenting resilience, and hope.

red light therapy eyes open or closed: Paleo Principles Sarah Ballantyne, 2017-11-07 From the New York Times bestselling author of The Paleo Approach and The Healing Kitchen comes the most comprehensive resource to date for those seeking a scientifically founded nutritional approach to optimal health. In her signature approachable yet comprehensive style, Sarah Ballantyne, PhD, has laid a complete foundation for understanding the principles of the Paleo template in order to inform and empower people's day-to-day choices. Combined with an unprecedented collection of practical strategies, tips, and visual guides, plus more than 200 delicious recipes and twenty meal plans for a variety of health goals, this book is a one-stop-shop for nutrition nerds, health nuts, and gourmards alike. The Paleo diet is a nutrient-dense, anti-inflammatory whole-foods diet based on eating a variety of quality vegetables, meats, seafood, fruits, eggs, nuts, seeds, healthy fats, herbs, and spices. It is clinically proven to improve health by providing complete and balanced nutrition while omitting most processed and refined foods and empty calories. Far from being a historical re-enactment, the Paleo framework is derived from thousands of scientific studies that illuminate our understanding of which foods support health and which foods undermine it. Combined with attention to essential lifestyle factors like physical activity, sleep, and stress, the Paleo template is quite simply the most robust approach out there for optimal health, performance, and longevity! With the perfect balance of detailed explanations, accessible summaries of actionable information, and visual guides, Paleo Principles provides everything readers need to achieve their best health. Beyond a set of rules, this book teaches precisely why some foods are better choices than others while providing indispensable resources like food lists, shopping guides, and cooking how-tos. Health comes from more than just the foods on our plates, however, which is why Dr. Ballantyne also incorporates a focus on lifestyle factors known to improve health, including being active, getting enough sleep, managing stress, and connecting with community. People needn't worry that following a Paleo-style diet will leave them feeling hungry or deprived. Healthy re-creations of family-friendly favorites,

from pizza to pancakes, prove that you can regain your health and love every bite! Paleo Principles contains more than 200 nutritious Paleo recipes that are free of gluten, grain, dairy, legumes, and refined sugar—including kitchen basics, breakfasts, soups and salads, main dishes, side dishes, baked goods, and desserts—all labeled for the top eight allergen ingredients as well as other common food sensitivities, like FODMAPs and nightshades, and the Autoimmune Protocol. Adapt the Paleo template to serve your specific needs and health goals by using Paleo Principles' guides on customizing macronutrient ratios, navigating gray-area foods, troubleshooting chronic illnesses and food sensitivities, transitioning to a Paleo-style diet, understanding your body's individual response to different foods, and balancing Paleo priorities with competing interests for lifelong success. Combine these resources with twenty meal plans reflecting the most common health objectives, and you have the know-how to personalize your plan to fit your life. Join the millions of people taking back their health by following a Paleo lifestyle. Whether your goal is to lose weight, increase performance, reduce cardiovascular disease risk factors, prevent cancer, mitigate autoimmune disease, reverse diabetes, or simply achieve your best health, Paleo Principles gives you answers and a veritable toolkit to make lasting, positive change toward better health.

red light therapy eyes open or closed: Kanski's Clinical Ophthalmology E-Book Jack J. Kanski, Brad Bowling, 2015-03-24 Kanski's Clinical Ophthalmology: A Systematic Approach is the classic specialty text providing the perfect ophthalmology foundation for trainees through to experienced practitioners. The famous visually dynamic and succinct format enables easy comprehension and focused guidance in the diagnosis and management of ophthalmic disorders. Build the ultimate foundation in ophthalmology with this market-leading resource. Benefit from guidance on examination, imaging, and the recognition of systemic conditions associated with ocular disease. Completely revised by award-winning ophthalmic educator Brad Bowling, the eighth edition reflects the latest advances, making this an indispensable resource to enhance learning, aid exam preparation and guide clinical practice. Designed for rapid reference and efficient recall, the concise but comprehensive chapters use crisp targeted text, bulleted lists, tables, and visual aids to highlight salient points across all ophthalmology subspecialties. Features detailed updates on key evolving topics such as the spectrum of macular disease, with many new disorders added to this edition across a range of subspecialties. Increased emphasis on practical investigation and management. Includes 2,600 illustrations, images and artworks, with over 900 brand new for this edition, including ultra wide-field imaging, fundus autofluorescence, and high-resolution OCT. Consult this title on your favourite e-reader.

red light therapy eyes open or closed: Comprehensive Review of Orthoptics and Ocular Motility Jane Hurtt, Antonia Rasicovici, Charles E. Windsor, 1977

red light therapy eyes open or closed: Biomedical Engineering and Neuroscience Wojciech P. Hunek, Szczepan Paszkiel, 2018-02-06 This edition of the volume 'Advances in Intelligent Systems and Computing' presents the proceedings of the 3rd International Scientific Conference BCI. The event was held at Opole University of Technology in Poland on 13 and 14 March 2018. Since 2014 the conference has taken place every two years at the University's Faculty of Electrical Engineering, Automatic Control and Informatics. The conference focused on the issues relating to new trends in modern brain-computer interfaces (BCI) and control engineering, including neurobiology-neurosurgery, cognitive science-bioethics, biophysics-biochemistry, modeling-neuroinformatics, BCI technology, biomedical engineering, control and robotics, computer engineering and neurorehabilitation-biofeedback. In addition to paper presentations, the scientific program also included a number of practical demonstrations covering, for example, the on-line control of mobile robot and unmanned aerial vehicle using the BCI technology.

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