# An Evidence-Based Overview of The Use of Nutritional Supplements and Herbal Remedies for Ocular Diseases

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### **Abstract:**

Ocular diseases, such as age-related macular degeneration (AMD), cataracts, glaucoma, and diabetic retinopathy, contribute significantly to the global burden of visual impairment and blindness and pose significant health and economic challenges. This review discusses using nutritional supplements and herbal remedies as adjuncts to ocular health. Key findings show that carotenoids lutein and zeaxanthin could retard the progression of age-related macular degeneration, omega-3 fatty acids, dry eye syndrome and diabetic retinopathy as such, have been cured by having vitamins A, C, and E, which basically help decrease oxidative stress. Herbal-based treatments like Ginkgo biloba, Bilberry (Vaccinium myrtillus), and Curcuma longa are promising due to their antioxidant, anti-inflammatory, and vascular-enhancing qualities. Whereas such improvement might prevail, others, like variation in preparations, imbalanced dosing, and the need for rigorous randomized control trials, remain. The present review underlines the necessity of incorporating these natural interventions into evidencebased ophthalmic care while rectifying the standardization and regulatory gaps for safe and effective treatment. Establishing these interventions as viable, accessible, and sustainable solutions for preserving vision and contributing to a better quality of life worldwide will require further research.

**Keywords**: Nutritional Supplements, Herbal Remedies, Ocular Diseases, Age-Related Macular Degeneration (AMD), Age-Related Eye Disease Study (AREDS).

### 1. INTRODUCTION

Ocular diseases such as AMD, glaucoma, cataracts, and diabetic retinopathy are some of the main causes of visual impairment and blindness globally. These diseases affect not only the quality of life but also cause a

tremendous economic burden to the individual and healthcare systems. As the population is aging and people's lifestyles change with increased exposure to screens and unhealthy diets, these diseases are becoming more prevalent [1]. Conventional interventions like surgeries and

pharmacological therapy continue to serve as the core management strategies in ocular disease. However, such interventions present limitations such as being expensive, scarce, and available in resource-based environments, in addition to sometimes producing side effects. Such challenges and issues have evoked interest complementing and supplementing these treatments with nutritional supplementation and herbalism. These complementary and alternative treatments promise advantage of providing a natural, noninvasive, and perhaps cost-effective measure of ocular health.

Nutritional supplements herbal and remedies, which have for long been regarded in traditional medicines as maintaining and preventing vision loss, are scientifically being validated regarding their efficacy. With the advancement in science, many of these natural interventions are now an integral part of evidence-based ophthalmic care [2]. Compounds such as lutein and zeaxanthin, omega-3 fatty acids, and vitamins A, C, and E have been shown to play a critical role in protecting the retina and macula from oxidative stress and inflammation\u2014two key contributors to the progression of many ocular diseases. Herbal remedies, like Ginkgo biloba, Bilberry (Vaccinium myrtillus), Curcuma longa (Turmeric), have been reported increasingly to possess antioxidant, anti-inflammatory, vascular-enhancing properties that could complement existing treatment regimens.

All such interventions have grown a body of evidence supporting these interventions,

with challenges remaining as usual. The variety in the form and quality of preparations including supplements and herbal remedies, also with no widely agreed dosing standards, continues to significant concerns about both their consistent safety and efficacy Γ31. Additionally, from the promising smallscale clinical or preclinical data, large scale, randomized control clinical trials are mandatory to draw clear conclusions. It is also crucial to understand potential interactions between such natural interventions and conventional therapies for safe integration into comprehensive eye care strategies.

Ocular diseases include age-related macular degeneration, cataracts, glaucoma, and diabetic retinopathy, are a major world health challenge; they significantly account for visual impairments that reduce the quality of life, hinder productivity, and have an economic cost on healthcare. Although pharmacological and surgical interventions are effective, the treatments are high-cost, come with potential side effects, and are not very accessible, especially to resource-poor settings. However, in the light of such threats, nutritional supplements and herbal treatments have surfaced as an excellent add-on practice in the field of ocular wellbeing [4]. Hailing from age-old medicinal philosophies of Ayurveda, TCM, and Unani, these therapies are being practiced over centuries for preventing eye ailments and ensuring a proper vision system. Modern research now confirms the effectiveness of these practices, which shows mechanisms and therapeutic

potential and their importance in integrative eye care strategies.

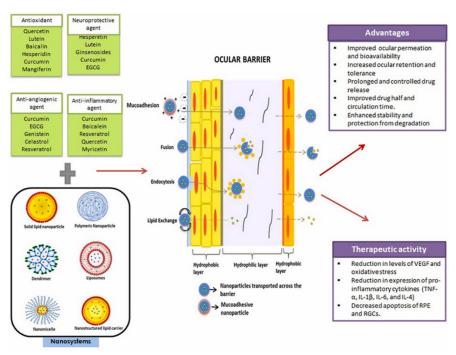


Figure 1: Herbal Remedies for Ocular Diseases [5].

### 1.1. Objectives of the Study

- To investigate the role of nutritional supplements and herbal remedies in the prevention and management of ocular diseases.
- To analyze their mechanisms of action and efficacy.
- To highlight existing evidence and identify research gaps.
- To provide recommendations for integrating these interventions into clinical practice.

### 1.2. Importance of the Topic

➤ Increasing Prevalence of Ocular Diseases: A growing percentage of

- conditions including AMD, cataract and diabetic retinopathy has arisen due to age-related effects combined with improper eating habits as well as indulging in unceasing excessive viewing of mobile or computer screens [6].
- Preventive strategies help address ocular diseases early enough to significantly cut down the associated economic and health burden that has to be supported in the name of advanced intervention such as surgery and pharmacological treatments.
- > Role of Nutritional Supplements and Herbal Remedies: They serve

as a holistic and noninvasive form of eye care; instead, antioxidant, anti-inflammatory agent, and vascular enhancer support vision protection.

- Cost-Effectiveness and Accessibility: Nutritional and herbal therapies are often more affordable and accessible compared to conventional treatments, making them particularly valuable in low-resource settings [7].
- > Potential for Integrative Eve Care: With proper evidence, through various studies proving efficacy and safety of such treatments, these treatments will find a suitable place in the holistic integrative approach managing ocular health through hybrid integration of both conventional medicine with alternative healing processes.

# 2. KEY NUTRITIONAL SUPPLEMENTS AND HERBAL REMEDIES IN OCULAR DISEASE MANAGEMENT

### 2.1. Lutein and Zeaxanthin

Lutein and zeaxanthin are important carotenoids that occur naturally in high concentrations in the macula, the central part of the retina responsible for sharp vision. They act as blue light filters, protecting the retina from the damaging effects of high-energy light exposure, and as potent antioxidants, reducing oxidative stress and protecting retinal cells [8]. The Age-Related Eye Disease Study and its follow-up study, AREDS2, proved its effectiveness with good evidence showing

that daily intake of these carotenoids does indeed significantly reduce the progression rate of AMD, mainly in patients with high risk to the advanced stage, emphasizing how they help protect the macular and avoid blindness.

### 2.2. Omega-3 Fatty Acids

Omega-3 fatty acids, the DHA and EPA of fish oil are essential for normal functioning and health of the retina and the eye. They provide structural integrity membranes of retinal cells and have been proved to have anti-inflammatory with which address properties to inflammatory and degenerative conditions of the eyes [9]. Clinical studies have proven that they have beneficial effects on dry eye syndrome, improving tear production and quality, and protecting the retina against inflammation and vascular damage in diabetic retinopathy. These findings, therefore, give a reason to believe that omega-3 fatty acids play an important role in maintaining eye health and preventing vision-related complications.

### 2.3. Ginkgo biloba

Ginkgo biloba is an herbal medication that has a significant level of flavonoids and terpenoids. Flavonoids and terpenoids are chemical compounds that have the potential to exert powerful antioxidant as well as vasodilatory effects [10]. They significantly enhance blood flow in the eye, especially in the retina and optic nerve, factors that are particularly important in glaucoma. Improved circulation as well as reduced oxidative stress avoid damage of the retinal ganglion cells by high intraocular pressure

as well as ischemia. Its studies show potential in glaucoma management, lowering intraocular pressure and improving visual field parameters, thereby being an adjunctive therapy of choice in the preservation of vision.

### 2.4. Bilberry (Vaccinium myrtillus)

Bilberry, Vaccinium myrtillus, is one of the richest sources of anthocyanins, powerful antioxidants that improve vascular integrity and enhance the strength of capillaries. It plays an important role in ocular circulation, helping reduce vascular leakage and inflammation [11]. Thus, bilberry has been recommended as a nutritional supplement for diseases such as diabetic retinopathy. The other factor through which retinal function may be improved with bilberry consumption is the increase in the regeneration of rhodopsin, the pigment of low-light vision. Preclinical studies further

support its efficacy in managing retinopathy, highlighting bilberry's potential as a natural remedy for protecting and enhancing visual health.

### 2.5. Curcuma longa (Turmeric)

Curcuma longa or Turmeric is a natural herb that possesses a bioactive compound called curcumin that exhibits strong antiinflammatory and antioxidant activities, essential for the retinal health system. Curcumin exerts inhibitory effects on the inflammatory pathway while scavenging the oxidative stresses responsible for promoting diabetic retinopathy Preclinical studies have demonstrated the utility of curcumin treatment, which causes a reduction in retinal vascular leakage and cellular damage in diabetic models, so it appears to be an adjunct therapy to conventional treatments for managing diabetic retinopathy and preserving vision.

**Table 1:** Nutritional Supplements and Herbal Remedies for Ocular Disease Management [13].

Nutritional	Key	Mechanism of Action	Evidence		
Supplement/Herbal	Components				
Remedy					
Lutein and	Carotenoids	Blue light filters; reduce	AREDS and AREDS2 trials		
Zeaxanthin		oxidative stress; protect	showed slowed AMD progression,		
		macular and retinal health	particularly in high-risk individuals		
Omega-3 Fatty	DHA, EPA	Anti-inflammatory; maintain	Clinical studies demonstrated		
Acids		retinal cell membrane integrity;	benefits in dry eye syndrome and		
		promote tear production	reduced retinal inflammation		
Ginkgo biloba	Flavonoids,	Improves ocular blood flow;	Studies support lowering		
	Terpenoids	reduces oxidative stress;	intraocular pressure and improving		
		protects retinal ganglion cells	visual fields in glaucoma patients		
Bilberry (Vaccinium	Anthocyanins	Strengthens capillaries; reduces	Preclinical studies show benefits in		
myrtillus)		vascular leakage; enhances	diabetic retinopathy and improved		
		rhodopsin regeneration	night vision		

Curcuma	longa	Curcumin	Inhibits	inf	lammatory	Preclini	cal studies	show	reduced
(Turmeric)			pathways;	reduces	oxidative	retinal	damage	and	vascular
			stress		leakage in diabetic models			3	

# 3. METHODOLOGIES AND FINDINGS

Nutritional supplements and herbal interventions in treating ocular diseases involve myriad approaches, ranging from in vitro experiments to animal models and clinical trials, that illustrate the promise and problems of treatment. Nutritional supplements containing carotenoids like lutein and zeaxanthin, omega-3 fatty acids, vitamins A, C, and E have been proven effective for various conditions including AMD, dry eye syndrome, and cataracts supported by these stronger studies like AREDS2 [14]. Ginkgo biloba, Vaccinium myrtillus (bilberry), and Curcuma longa (turmeric) are examples of herbal remedies that have neuroprotective effects, possess vascular-strengthening properties, inhibit inflammation in managing glaucoma, diabetic retinopathy, or retinal disease. Challenges remain, however, including issues about safety. standardization, and a lack of regulatory oversight, since the dosages and various forms of formulation lead to confusion in efficacy and quality control. These gaps are to be bridged with strict quality control, evidence-based validations, comprehensive studies to bring standard guidelines for integrating these therapies into management in ocular health.

## 3.1. Nutritional Supplements for Ocular Health

# • Carotenoids (Lutein and Zeaxanthin)

Carotenoids like lutein and zeaxanthin are essential pigments that are naturally concentrated in the macula of the eye [15]. They play a protective role there by absorbing the harmful blue light and neutralizing free radicals, thus protecting the macula from oxidative damage-the main cause of age-related macular degeneration (AMD). Clinical evidence, particularly as presented by AREDS2 has evidenced results, that daily supplementations of carotenoids proved to reduce 25% the occurrence of AMD disease progression. Clearly, they are among the essential nutrient elements that improve ocular and vision health before any AMD progressions.

### Omega-3 Fatty Acids

Omega-3 fatty acids, which are primarily represented by DHA and EPA from fish oil, work by reducing the level of inflammation and enhancing membrane integrity of the retinal cells as well as encouraging tear production [16]. Anti-inflammatory actions are, of course especially valuable in dealing with such conditions as dry eye syndrome to minimize symptoms as well as tear clinical quality. Omega-3s, through research, have proven their protective against diabetic retinopathy. function

Hence, they serve as a potential agent in preventing complications of ocular disorders associated with inflammatory and metabolic conditions.

### • Vitamins A, C, and E

Vitamins A, C, and E are crucial antioxidants that prevent cataract generation and AMD due to free radical deterioration of ocular tissues. Vitamins A facilitate the maintenance of the retina as

well as prevention from night blindness whereas vitamins C and E counter oxidizing stress towards the lens and macula [17]. Many studies have shown that adequate intake of these vitamins is associated with reduced risk of cataract formation and slower progression of AMD, which underlines their role in maintaining long-term eye health and preventing agerelated visual decline.

**Table 2:** Nutritional Supplements for Ocular Health [18].

Nutrient	Key	Mechanism of Action	Evidence/Benefits		
	Components				
Carotenoids	Carotenoids	Absorb harmful blue light;	AREDS2 trial showed a 25%		
(Lutein and		neutralize free radicals; protect	reduction in AMD progression;		
Zeaxanthin)		macula from oxidative damage	essential for macular health		
Omega-3	DHA, EPA	Reduce inflammation; enhance	Effective in managing dry eye		
Fatty Acids		retinal cell membrane integrity;	syndrome; protective effects		
		promote tear production	against diabetic retinopathy		
Vitamins A,	Retinol,	Antioxidant properties; protect	Linked to reduced risk of cataracts		
C, and E	Ascorbic Acid,	ocular tissues from free radical	and slower AMD progression;		
	Tocopherol	damage	support long-term eye health		

# 3.2. Herbal Remedies in Ocular Disease Management

### Ginkgo biloba

Ginkgo biloba is an herbal medicine known to be neuroprotective and to have antioxidant effects, which are therefore a very promising adjunct to ocular health. It promotes ocular blood flow, preserves retinal ganglion cells, and decreases oxidative stress [19]. All these features are essential for the management of glaucoma. It has been shown through clinical trials to be effective in lowering intraocular

pressure while improving visual field parameters in patients with glaucoma, making it a more feasible adjunctive therapy for preserving vision and slowing down the disease's progression.

### • Bilberry (Vaccinium myrtillus)

Bilberry (Vaccinium myrtillus) is an anthocyanin-rich supplement which, through their capacity to improve capillary circulation and reinforce vascular structures, improves healthy blood flow in ocular tissues [20]. The data from preclinical studies are promising in

revealing a potential of managing diabetic retinopathy from reduction in vascular leakage and oxidative stress, along with enhancement of night vision by improved retinal function. It can be concluded that bilberry has good usage as an herbal remedy for several vision-related conditions.

### • Curcuma longa (Turmeric)

Curcuma longa, or Turmeric, contains curcumin, a bioactive compound that has potent anti-inflammatory and antioxidant properties, thus playing a very important role in ocular health. Curcumin effectively inhibits inflammatory pathways and reduces oxidative stress in retinal cells, which are major contributors to retinal damage in diabetic retinopathy [21]. Studies in animals have shown that treatment with curcumin significantly diminishes retinal damage in models of diabetes and hence has significant potential as an adjunctive treatment in the management of retinal diseases and against vision loss.

Herbal	Key	Mechanism of Action	Evidence/Benefits	
Remedy	Components			
Ginkgo biloba	Flavonoids,	Enhances ocular blood flow;	Clinical trials show reduced	
	Terpenoids	protects retinal ganglion cells;	intraocular pressure and improved	
		reduces oxidative stress	visual fields in glaucoma patients	
Bilberry	Anthocyanins	Strengthens vascular structures;	Preclinical studies demonstrate	
(Vaccinium		improves capillary circulation;	benefits in diabetic retinopathy	
myrtillus)		reduces oxidative stress	and improved night vision	
Curcuma	Curcumin	Inhibits inflammatory	Animal studies highlight reduced	
longa		pathways; reduces oxidative	retinal damage and vascular	

stress in retinal cells

**Table 3:** Herbal Remedies in Ocular Disease Management [22].

# 3.3. Safety, Standardization, and Regulatory Challenges

(Turmeric)

- Safety Concerns: While generally regarded as safe, supplements and herbal remedies can produce adverse effects or interact with drugs. For example, excessive intake of vitamin A causes toxicity.
- **Standardization Issues**: Variability in active ingredient concentrations

complicates dosing and efficacy comparisons. For example, the curcumin content in turmeric products varies widely [23].

leakage in diabetic models

• Regulatory Frameworks: Unlike pharmaceuticals, supplements and herbal remedies do not have rigorous quality control measures, thus the adulteration risk is increased, and the efficacy will not be uniform.

**Table 4:** Summary of Research Studies on Therapeutics and Diagnostic Approaches for Ocular Diseases [24].

<b>Author Name</b>	Topic Covered	Research Study Title		
Park et al.	Complement therapeutics for	The Challenges and Promise of Complement		
(2019) [25]	ocular diseases	Therapeutics for Ocular Diseases		
Qamar et al.	Nano-based drug delivery	Nano-Based Drug Delivery System: Recent		
(2019) [26]	systems for ocular diseases	Strategies for the Treatment of Ocular		
		Disease and Future Perspective		
Rasethe et al.	Medicinal plants used for ocular	Medicinal Plants Traded in Informal Herbal		
(2019) [27]	diseases in Limpopo, South	Medicine Markets of the Limpopo Province,		
	Africa	South Africa		
Santone et al.	AI-based diagnostic methods	A Method for Ocular Disease Diagnosis		
(2024) [28]	for ocular diseases	Through Visual Prediction Explain ability		
Sapowadia et	Biomaterial-based drug delivery	Biomaterial Drug Delivery Systems for		
al. (2023) [29]	systems for ocular diseases	Prominent Ocular Diseases		
Schuman et	Optical coherence tomography	Optical Coherence Tomography of Ocula		
al. (2024) [30]	in ocular disease diagnosis	Diseases		

#### 4. DISCUSSION

### 4.1. Interpretation and Analysis

Nutritional supplements herbal and supplements are a tempting complementary approach toward the management of ocular diseases, filling treatment gaps in more conventional approaches. Carotenoids such as lutein and zeaxanthin have particularly strong clinical evidence, especially the AREDS2 study, verifying their efficacy against the progression of age-related macular degeneration [31]. Omega-3 fatty strong anti-inflammatory with capabilities, have resulted in significant benefits with dry eye syndrome and diabetic retinopathy among Additional herbal remedies such as Ginkgo biloba and Bilberry also demonstrated promising results by improving ocular

blood flow, reducing oxidative stress, and maintaining retinal health. Although such interventions do give hope for using natural therapies as part of the eye care protocol, their effectiveness and safety will need to be validated in larger, standardized clinical trials involving more diverse populations.

### 4.2. Implications and Significance

The use of nutritional supplements and herbal remedies in ocular health, therefore, has tremendous implications for care in the global aspect, particularly in resource-limited settings where the access of conventional therapies may be restricted due to cost or availability. Of all, these interventions give people a natural, cost-effective, and non-invasive alternative that can reduce dependency on expensive and invasive treatments like surgeries or long-term pharmacological regimens [32].

Moreover, increasing public awareness of these natural options for eye care can empower the individual to take proactive steps towards maintaining eye health, thereby enhancing preventive care. Being able to deliver a scientifically validated supplement and herbal remedy could play a transformative role in reducing the burden of vision-related diseases, especially in populations that currently are not well reached, and in how well it might integrate with conventional treatments to present an encompassing approach ocular healthcare.

### 4.3. Gaps and Future Research Directions

- Conduct Large-Scale Randomized Controlled Trials (RCTs) to Validate Preclinical Findings of Herbal Remedies: Herbal drugs such as Ginkgo biloba and Bilberry showed promising results in preclinical and small-scale clinical trials [33]. Due to the limitation of a dearth of large RCTs, the findings have limited generalization and clinical implementation. Large RCTs are therefore required for diversified populations to prove their efficacy, safety, and potential therapeutic benefits against AMD, glaucoma, and diabetic retinopathy among others. This would strengthen the evidence to introduce these natural therapies into conventional treatment protocols.
- Develop Standardized Formulations to Ensure Consistent Efficacy and Safety: A

- major difficulty with nutritional supplements and herbal drugs is the differences in their compositions. Variability in the level of active ingredient, preparation methodology, and standard quality control might lead to an unpredictable while outcome making them not so reliable for their use [34]. It is necessary to produce standardized formulations clearly active indicating dosages and constituents for consistent therapeutic benefits and safety. Regulatory oversight and guidelines for manufacturing processes are also important to mitigate risks such as contamination, adulteration, or variability in potency.
- Investigate Long-Term the **Effects and Potential Interactions** of These Interventions with Conventional Treatments: While most of the supplements and herbal treatments have passed as being nontoxic with short-term application, chronic impacts remain relatively unstudied [35]. These types of studies must be performed, especially for elderly individuals with several comorbidities, as a majority studies of of the chronically treated older populations with a comorbidity may suffer side effects from interaction of conventional medication like that taken for glaucoma or diabetic retinopathy with natural remedy for type of ocular diseases. Understanding these dynamics will

allow healthcare providers to confidently recommend these interventions as part of an integrative approach to ocular health.

### 5. CONCLUSION

Nutritional supplements and herbal remedies form a promising area of complementary care for ocular diseases, giving natural, non-invasive solutions for problems like age-related macular degeneration (AMD), diabetic retinopathy, and glaucoma. Carotenoids such as lutein and zeaxanthin, supported by considerable clinical evidence of the AREDS2 trial, have shown slowing of AMD progression, and the omega-3 fatty acids have also been found to have anti-inflammatory activity and alleviate symptoms of dry eye syndrome. Ginkgo biloba and Curcuma longa constitute herbal interventions that have a lot of potential since they possess anti-inflammatory, antioxidant. vascular-enhancing properties. However, these medicinal herbs have to be validated in large-scale trials and long-term studies. Ocular diseases are increasingly occurring, and these interventions are accessible, sustainable, and cost-effective alternatives to conventional interventions, especially for resource-poor settings. There is a need to address such issues as formulation variability, potential side effects, and regulatory gaps for these remedies to be included in the mainstream ophthalmic care. This can be done through interdisciplinary research, public awareness, and development of regulatory frameworks to ensure their quality, safety, and efficacy to use them effectively in the

preservation of vision and improvement of the quality of life worldwide.

# 5.1. Summary of Main Insights and Conclusions

Nutritional supplementation and herbal formulations are an efficacious adjunct modality in the prevention and treatment of ocular pathologies, working natural but non-invasive means to benefit conditions such as age-related macular degeneration (AMD), diabetic retinopathy, or glaucoma. Carotenoids, with lutein and zeaxanthin perhaps being the prime examples, that have been supported extensively by clinical-based evidence, with the AREDS2 trial indicating efficacy in slowing progression of AMD in patients. Omega-3 fatty acids have been shown to significantly benefit dry eye syndrome and reduce inflammation in diabetic retinopathy. Ginkgo biloba and Curcuma longa, two of the most promising herbal treatments, have considerable potential through their antioxidant, antiinflammatory, vascular-enhancing and properties. Herbal interventions, however, need larger-scale trials for validation of preclinical findings, assessment of longterm efficacy, and safety. The key challenge is in overcoming the inconsistent nature of formulations, possible side effects, and the absence of regulatory frames within these natural interventions. Overcoming the aforementioned can ensure that these interventions are affordable, accessible, and accessible as options for vision saving and eye care around the world.

### 5.2. Reiteration of Importance

- Rising Prevalence of Ocular Diseases: It also points out that the world has seen an increased prevalence of diseases like agerelated macular degeneration, glaucoma, and diabetic retinopathy. This shows a pressing need for effective interventions.
- Sustainability: Nutrition supplement and herbal drug therapies provide for natural, not to mention sustainable environmental remedies alternative to the current treatments; as a result of reducing dependency on resources-intensive therapies.
- Accessibility: These interventions are sometimes less costly and more accessible, but most notably offer benefits especially to people in resource-poor settings who can gain access to advanced medical care only in limited cases.
- Vision Preservation: By addressing key mechanisms like oxidative stress, inflammation, and vascular health, these natural remedies help protect and preserve vision, reducing the progression of debilitating eye diseases.
- Enhanced Quality of Life: Support for natural means to keep the eyes healthy prevents loss of vision and helps increase the quality of life for aging populations as they can be independent and have daily functionality maintained.

### 5.3. Recommendations

• Promote Interdisciplinary Research: Encourage an active

- collaboration amongst practitioners of conventional medicine, modern medicinal research, and the regulatory department for validation to assimilate in the use of supplements and herbs with evidence in the care system for ophthalmology.
- Enhance Public Education:
  Increase educational campaigns to
  educate the public on the possible
  benefits, proper use, and possible
  adverse effects of nutritional
  supplements and herbal remedies to
  help inform people to make
  appropriate decisions about their
  eye health.
- Establish Regulatory
  Frameworks: Develop and enforce
  firm regulations that bring in
  uniformity to ensure supplements
  and herbal products' standard
  quality, potency, and safety to
  customer as well as health
  professionals.

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