



ORIGINAL RESEARCH

Understanding Patient Experiences Before and After Monovision LASIK for Hyperopia and Presbyopia: A Qualitative Approach

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Purpose: This study aimed to explore the social and emotional perceptions of individuals with presbyopia, focusing on the impact of age-related near-vision loss before and after monovision LASIK surgery.

Patients and Methods: This qualitative study employed semi-structured interviews with individuals diagnosed with presbyopia, along with associated hyperopia and/or astigmatism, and moderate refractive errors suitable for monovision LASIK. The interviews were recorded, transcribed, and analyzed using ATLAS.ti software (version 9.1.1) to identify codes, subthemes, and overarching themes. A thematic content analysis was conducted, with data collection concluding when saturation was reached. A total of 17 participants (9 women, 8 men), aged 48–60 years, were interviewed through 8 face-to-face and 9 videoconferencing sessions.

Results: Presbyopia emerged as a significant milestone with emotional and psychological implications, often linked to the perception of aging, such as concerns about diminished independence and appearance. Motivations for surgery included aesthetics, discomfort with glasses, hygiene concerns, and the desire for greater independence. Fear of the procedure was identified as a key barrier, though it was mitigated by social support. Despite initial adaptation challenges, most participants reported favorable outcomes, citing improved self-esteem and a sense of freedom.

Conclusion: For carefully selected individuals, monovision LASIK can be an effective strategy for addressing the challenges of presbyopia, particularly with respect to the psychological and social dimensions of aging.

Keywords: aging and vision, psychological impact, patient experiences, near-vision loss, vision correction

Introduction

Presbyopia, a common age-related visual impairment, presents significant challenges for individuals as they age, with major implications for both their quality of life and psychological well-being. Although surgical interventions such as monovision LASIK have been developed to address this condition, there remains a limited understanding of patient experiences, particularly in terms of the social and emotional impact of such treatments. This study aims to bridge this gap by exploring the lived experiences of patients who have undergone monovision LASIK for presbyopia, with a focus on the psychological and social dimensions of the procedure.

The 1980s saw the advent of surgical techniques aimed at reducing dependence on glasses, revolutionizing ophthal-mologic practice and establishing refractive surgery as a subspecialty. Initially focused on treating myopia, hyperopia, and astigmatism, this field gradually expanded to include presbyopia as an area of clinical interest.

The correction of presbyopia found its early model in "balanced vision", or monovision, achieved through contact lenses.² This approach naturally translated to surgical techniques. However, the procedure presents notable challenges, particularly in terms of adaptation, as it introduces significant visual difficulties. The disparity in visual acuity across

different distances places considerable sensory, motor, and psychological demands,^{3,4} necessitating variable adaptation periods and yielding diverse perceptions of its effectiveness. Despite its widespread use, there is limited consensus on the long-term effectiveness of monovision LASIK, particularly in terms of patient satisfaction and adaptation. The lack of standardized outcome measures and the variable nature of individual responses make it challenging to assess the true efficacy of the procedure, contributing to ongoing uncertainty among both clinicians and patients.

Several studies^{5–10} have explored the quality of life associated with refractive errors and their correction, aiming to bridge the gap between physician and patient perspectives. However, significant disparities persist in understanding these experiences, contributing to a notable knowledge gap in the field. For instance, Eydelman et al¹¹ analyzed data from the PROWL I and II studies, which collected pre- and postoperative feedback via online questionnaires from patients undergoing LASIK for hyperopia, myopia, and astigmatism. While patient dissatisfaction rates were low (1%–4%), the study highlighted the potential emergence of new visual symptoms, even after successful surgeries.

This qualitative study seeks to amplify the voices of patients with presbyopia who have undergone monovision LASIK, exploring the social and emotional aspects of their experiences. By capturing these perspectives, the research aims to fill a critical gap in knowledge regarding the different ways in which refractive surgery impacts individuals beyond visual outcomes, with the potential to inform future clinical practice and improve patient care.

Materials and Methods

Ethics Approval

The study complies with the Declaration of Helsinki and received approval from the Research Ethics Committee of Hospital São Paulo, Federal University of São Paulo (CEP-HSP/UNIFESP, CAAE: 19906619.3.0000.5505).

Study Design

This phenomenological descriptive qualitative study analyzed data from patients who underwent monovision LASIK refractive surgery at OFTALMAX/OPTY, Eye Hospital, Recife, PE. Semi-structured interviews with open-ended questions served as the primary data collection method. After obtaining informed consent, interviews were recorded, transcribed verbatim, and analyzed. Reporting adhered to the framework established by Tong et al (2007)¹² in the Consolidated Criteria for Reporting Qualitative Research (COREQ), ensuring transparency and rigor in qualitative research.

Sample

The sample comprised patients with presbyopia and associated hyperopia or astigmatism who had undergone LASIK surgery at least 1 year prior and returned spontaneously for annual follow-ups. All patients in the study group underwent bilateral simultaneous LASIK using MORIA SBK microkeratome and the EX500 excimer laser (Alcon/WaveLight, Fort Worth, TX, USA). The correction was performed using wavefront-optimized profile and the planned treatment was the total correction of static refraction in both eyes with the addition of +1.75 D in the non-dominant eye. Participants were selected via convenience sampling based on their visits to the clinic. No stratification was applied based on sex, surgical retreatment, or surgical outcomes.

Inclusion Criteria

Patients without associated eye diseases and achieving preoperative visual acuity of 20/20 (Snellen chart) and Jaeger 1 with adequate correction in each eye and uncorrected near visual acuity of Jaeger 3 or worse in both eyes. After surgery, the inclusion criteria included uncorrected distance visual acuity of 20/20 in the dominant eye and uncorrected near visual acuity of Jaeger 1 in the non-dominant.

Exclusion Criteria

Patients with uncorrected distance visual acuity worse than 20/20 in the dominant or worse than J1 in the non-dominant eye. Patients with surgical or postoperative complications or conditions causing visual impairment unrelated to refractive errors. Patients were contacted and scheduled for interviews at mutually convenient times. No active chart review or patient recruitment was undertaken, and no patients refused participation. Sampling ceased once data saturation was achieved, as defined by Turato (2013)¹³ when new interviews no longer yielded novel information relevant to the analysis. Exclusion criteria were established

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to ensure that the study focused on participants who had undergone a successful monovision LASIK procedure and had no complicating factors that could confound the findings related to the surgery's effectiveness and emotional impact. To ensure anonymity, interviewees were assigned pseudonyms derived from Greek mythology. Male participants were named Apollo, Dionysus, Hermes, Geras, Kratos, Anteros, Helios, and Enyo, while female participants were named Themis, Hera, Athena, Artemis, Aphrodite, Hebe, Thetis, Nike, and Iris. The names were symbolic and bore no relevance to the interview content.

Interviews

A semi-structured interview guide with open-ended questions was developed and pilot-tested with three patients. The pilot confirmed the appropriateness of the questions and ensured that the interviewer avoided leading responses or disrupting conversational flow. The interview guide included questions related to participants' motivations for surgery, the emotional impact of presbyopia, their experiences during the recovery process, and post-surgical satisfaction.

The interviews were conducted by a 21-year-old female medical student (MAA) who had received prior training from one of the authors, a PhD professor of qualitative methodology at the Federal University of Pernambuco. Initially, interviews were performed in person at the OFTALMAX/OPTY clinic, with one to two interviews conducted per day. Due to the COVID-19 pandemic, subsequent interviews were conducted via videoconferencing using the WhatsApp platform. Approximately half of the interviews were face-to-face, and the remainder were virtual. All interviews lasted approximately 30 min, and no interviews required repetition. Participants were provided with both oral and written information about the study and signed an informed consent form, which included the provision for the publication of anonymized responses/direct quotes. Conversations were recorded on the interviewer's smartphone and transcribed on the same day. Transcripts were not returned to participants, as this was deemed unnecessary and unlikely to impact participant well-being. Although the transition to videoconferencing was necessary because of COVID-19, there were no significant differences in the quality or depth of responses between the face-to-face and virtual interviews.

Analysis

ATLAS.ti software (version 9.1.1)¹⁴ was used to systematically organize and categorize the interview data, allowing for efficient identification of key themes and ensuring consistency in the coding process. The data were analyzed using thematic content analysis, as described by Turato.¹³ This methodology involved the following steps:

Preanalysis

A series of free-floating readings was conducted to identify underlying meanings, including those not explicitly stated.

Categorization and Subcategorization

Key themes were highlighted based on relevance and frequency of occurrence. Data were then reorganized into structured categories and subcategories, transforming raw information into organized, coherent data.

External Validation

To ensure consistency and rigor in the analysis, two researchers independently coded a subset of the data and compared results to reach a consensus on key themes.

Presentation of Results

Results were presented descriptively, supported by illustrative quotations from participant interviews, which served as the foundation for subsequent discussion, inference, and interpretation.

Discussion

According to Turato, ¹³ this phase involves reinterpreting and reorganizing data in innovative ways through imagination and critical analysis. The goal is to deepen understanding of the study subject and propose new concepts and theories to provide meaningful insights for the academic and clinical community.

The collaborative review process helped validate the findings and provided multiple perspectives on the interpretation of key themes, adding depth and richness to the analysis.

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Results

The average age at the time of surgery was 50.3 years and 53 during the interviews. A total of 17 participants (9 women and 8 men), aged 48–60 years, were included. Of these, 8 interviews were conducted face-to-face, and 9 were conducted via videoconferencing. Seven participants had completed higher education, while 10 had attained a high school education level. Tables 1 and 2 summarize the clinicodemographic characteristics of the cohort. The variations in education level and sex in the sample may have contributed to differing perspectives on the emotional impact of presbyopia and the perceived effectiveness of monovision LASIK. For instance, individuals with higher education may have expressed more detailed insights into the procedure's benefits, while sex differences may have influenced how participants viewed the social implications of the surgery.

From the 17 interviews, 364 citations were identified and coded. These citations were categorized into 22 initial codes, which were further grouped into 5 broader code categories. The citations were analyzed and grouped into themes using ATLAS.ti software, ensuring that key concepts were systematically identified and coded based on their relevance to the research questions. These groups served as the basis for the final thematic report, which identified key themes and sub-themes that emerged organically from the data. The five broad categories identified through the coding process were related to participants' motivations, experiences with the procedure, emotional impact, social implications, and recovery challenges. Tables 3–7 present the themes, sub-themes, and two illustrative citations for each sub-theme. Illustrative citations were chosen based on their ability to clearly represent the key themes and provide insight into the common experiences shared by participants. The tables include the thematic categories, along with representative sub-themes and supporting quotes that illustrate the diversity of participant experiences.

Table I Clinical Data of the Interviewees

Codename	Age (years)	Eq. esf RE	Eq. esf LE
Hebe	49	1.5	1.25
Tethys	52	1.25	1.25
Nike	51	1	0.75
Aphrodite	49	1.25	1.375
Artemis	45	2	2
Apollo	53	1.25	1.5
Geras	53	2.5	2.5
Helios	50	0.5	0.5
Hermes	47	1	1
Anteros	51	1.25	1.75
Hera	54	1.75	1.75
Athena	54	1.625	1.5
Enyo	52	2	1.125
Themis	52	1.5	1.5
Kratos	53	2	2
Dionysius	43	1	I
Iris	47	0.5	0.75
Mean	50.29	1.40	1.38

Notes: Patients' code names, age at the time of surgery. **Abbreviations**: Eq esf, preoperative spherical equivalent; RE, right eye; LE, left eye.

Table 2 Age at the Time of the Interview and Status of Eyes Before or After I year

Codename	Age at Interview (Years)	Ret <i Year (eyes)</i 	Ret>I Year (eyes)
Hebe	51	2	0
Tethys	57	0	2
Nike	52	0	0
Aphrodite	52	0	0
Artemis	52		2
Apollo	54	0	2
Geras	55	2	0
Helios	52	0	0
Hermes	54	1	1
Anteros	59	0	2
Hera	60	0	1
Athena	55	0	0
Enyo	53	1	0
Themis	53	0	0
Kratos	54	1	I
Dionysius	44	0	0
Iris	48	0	0
Average/Total	53.23	7	11

Abbreviations: Int, interview; Ret, retreatment.

Table 3 Theme 1: Time and Presbyopia – Its Causes and Implications

Sub-Theme	Participant	Example
The surge of aging	Enyo	"I was exactly 40 years old, of course!"
	Hermes	"It was at the age of 40 that I started to feel some difficulty, and I faced it naturally."
Age as a cause	Enyo	"Maybe the muscles become. Start to become stiff. I don't know. That's for after 40!"
	Hermes	"The body is a machine, and over time, it has its natural wear and tear."
Visual effort	Artemis	"I used to crochet too, but you strain your eyes because when night comes, the light goes down, and the difficulty increases."
	Nike	"I work by reading the batches of medicines that have very small print. And then I started paying attention to the fact that with each passing year, my grading increased a little."
Genetics as a cause	Kratos	"Only with time, I think. Or hereditary; my mother also wears glasses; the family wears glasses."
	Aphrodite	"It is mainly the genetic aspect. I come from a family full of vision problems."

(Continued)

Table 3 (Continued).

Sub-Theme	Participant	Example
The meaning of presbyopia	Hera	"Sad! [laughs]. To know that I was getting old! I said: 'Hey, I'm getting old, I'm going blind!'"
	Kratos	"You feel older! You feel older, right? On top of it I'm bald, so I look much older."

Table 4 Theme 2: Motivational Factors for Seeking Surgical Management of Presbyopia

Sub-Theme	Participant	Example	
Hygiene	Dionysius	"I deal a lot with chemicals, that kind of thing, so every hour or so, I was cleaning my glasses, and that was a very big difficulty for me; I didn't feel comfortable, see?"	
	Kratos	"Apart from the cleaning part, you keep cleaning, and you always have to have your handkerchief handy, cleaning the lens, that kind of thing, right?"	
Aesthetics	Iris	"In my case, I don't associate glasses with beauty, except for sunglasses, which I understand is really an accessory."	
	Aphrodite	"Lousy! First, for aesthetics, which changes a lot, and second, you always want to have a more modern model, and then you become devastated."	
Nuisance potential	Iris	"All the time I removed them and put them on, removed and put on, I removed them and put them on. That distressed me."	
	Geras	"The glasses really bother him. And about everything, see? Even in leisure time, playing pool, playing soccer, glasses cause inconvenience for everything."	
The forgotten object	Anteros	"Very bad because when I had to read, my glasses weren't always with me. I forgot that I wore glasses."	
	Hera	"I traveled, left in a hurry, and my glasses? Forgotten! And there I was without seeing, without seeing anything."	
Dependence	Enyo	"I started to depend on the glasses to the point of just taking them off to sleep. I used to prepare meals with glasses because it's not nice to eat and see blurry food. I couldn't answer my cell phone if I didn't have glasses."	
	Geras	"Much better without glasses. Like this. The glasses are a. It's like you're addicted to something to some drug or something. You have an obligation to wear glasses."	

Table 5 Theme 3: The Fear of Surgery and Overcoming It

Sub-Theme	Participant	Example
Fear of surgery	Kratos	"'Gee, am I going to come in here seeing and leave with some difficulty, blind?" but on the other hand, I trusted his team a lot. Trusted him, right?"
	Aphrodite	"Fear arises and is normal in this surgery as in any other, as in heart surgery I had 90 days ago."
Influence of others	Enyo	"Some of my colleagues have already done it and all. Everyone praised and encouraged, see?"
	Hera	"Two brothers! My sister and a brother did, and it went well, too! Both of them went well, so I tell people to do it without fear!"

(Continued)

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Table 5 (Continued).

Sub-Theme	Participant	Example
Retreatment	Hermes	"Just like I wear glasses, I don't have to change them periodically? I'll tell you again, it's the natural wear and tear of the human body."
	Hebe	"It's something that I knew wasn't definitive, that Dr. Ermano told me that after two to three years, you need to redo it, I was already aware of that."
Influence of others	Enyo	"Some of my colleagues have already done it and all. Everyone praised and encouraged, see?"
	Hera	"Two brothers! My sister and a brother did, and it went well, too! Both of them went well, so I tell people to do it without fear!"

Table 6 Theme 4: Sacrifice and Adaptation

Sub-Theme	Participant	Example
4.1 Lights	Thetis	"The lights are annoying. The light from the streetlight is not clear; it is as if it were a star; I don't see it clearly".
	Iris	"The lights exploded a lot. Nighttime was a nightmare! And it took me a long time. It was a lot".
4.2 Adaptation	Themis	"About 3 months. Like. That really bothered me, but. It was 3 months!"
	Themis	"In the first 10 to 15 days, it fogged up a lot, and that bothered me a lot and made me worried".

Table 7 Theme 5: The Effect of Surgery

Sub-Theme	Participant	Example
5.I Freedom	Dionysus	"The question of freedom! That you no longer depend on glasses".
	Iris	"Ah, it was a very big gain! Today, I feel more like reading! Today, I feel more freedom in everything, you know?"
5.2 Final judgment	Helios	"I feel like it's an unnecessary surgery".
	Aphrodite	"So, I thought it was wonderful. It was 'manna from heaven!" [.] It's the fact that you can do certain things that you couldn't do anymore and couldn't even do without the help of glasses [.]"

Discussion

We aimed to conduct a phenomenological analysis of the onset of presbyopia and its correction through LASIK monovision. Following the example of other qualitative studies in ophthalmology, ^{15–17} we explored the phenomenology of age-related near-vision loss and treatment approaches chosen to address this condition. Although qualitative methods remain underutilized in ophthalmology, they offer a unique and valuable perspective for investigating the quality of life of patients undergoing such experiences.

Presbyopia is a nearly universal condition, affecting a large portion of the global population, with significant social, economic, and mental health repercussions. A systematic review estimated the global prevalence of presbyopia at 54.7%–90% among adults aged \geq 35 years, with women, individuals with hyperopia, and those of shorter stature disproportionately affected. Emotional responses to presbyopia, including feelings of inadequacy (15%) and

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embarrassment or shame (7%), are also notable. ¹⁸ The present findings align with these data, showing a slight predominance of women and universal hyperopia among participants. With an average age of 50.3 years at the time of surgery and 53 years during the interviews, this age range provided an adequate interval to assess the surgical outcomes and allowed for an enriched qualitative understanding of the patients' experiences. The predominance of women in this study may have influenced the psychosocial themes discussed, with some female participants expressing more concern about the social implications of presbyopia and its treatment. Additionally, the higher education levels of some participants could have contributed to more nuanced perspectives on the procedure's benefits and risks; this may be relevant when considering the broader applicability of the findings.

Time and Aging: The Psychosocial Impact of Presbyopia

The loss of near vision is commonly perceived as part of aging, representing a key life milestone. As Enyo vividly remarked: "I was exactly 40 years old, of course!" While some participants sought alternative explanations, such as heredity or visual strain, most linked presbyopia to the natural aging process. Hermes summarized this sentiment: "Time passes with wear and tear in all circumstances". The perception of presbyopia as an inevitable aspect of aging aligns with broader psychological theories of aging, such as Erikson's stages of psychosocial development, ¹⁹ where the awareness of physical decline can impact an individual's sense of integrity or despair.

This perception of presbyopia as a natural but disruptive event aligns with the findings of Kandel et al (2018),²⁰ who reported similar testimonies. The dissonance between biological and chronological age—a phenomenon observed in this study—has also drawn attention from neuroscientists exploring "epigenetic clocks", which use molecular markers to estimate biological age.^{21–23} Such research underscores presbyopia's role in shaping self-perception and may further motivate patients to seek surgical solutions, as explored in the second theme:

Motivational Factors for Surgery

Hygiene emerged as a notable subtheme of the second theme, likely due to the overlap of this study with the COVID-19 pandemic. Twelve citations occurred after pandemic-related restrictions were implemented. This aligns with Joffe's²⁴ observation that the demand for refractive surgeries has increased post pandemic, driven by issues such as foggy glasses, concerns about contact lens contamination, and the desire for improved appearance during video calls. Interestingly, while eyeglasses were often seen as inconvenient or unattractive, sunglasses were positively perceived as aesthetic accessories—highlighting their symbolic value in contrast to near-vision spectacles.

Aesthetics was another prominent motivator, as beauty is a powerful, albeit subjective, driver of decision-making. Scruton²⁵ argued that beauty is not superficial but central to personal choices, influencing not only self-perception but also broader psychosocial dynamics. The eyes, central to facial aesthetics, play a crucial role in defining individuality and self-expression. Surgical correction of presbyopia, therefore, extends beyond mere functionality, addressing deeper emotional and symbolic concerns.

While aesthetics and hygiene were primary motivators for many participants in this study, cultural or socioeconomic factors may have influenced the weightage given to these concerns. For example, in some cultures, the perception of beauty and appearance may hold more significance, and this could lead to different motivational drivers for surgery.

Discomfort, dependence on glasses, and frequent forgetfulness of the accessory further reinforced participants' motivations for surgery. Geras likened dependence on glasses to addiction: "It's like you're addicted to something [.] You have an obligation to wear glasses". Additionally, the growing importance of near vision in daily life—driven by the widespread use of digital devices—further validated the desire for surgical correction.

Fear of Surgery: A Universal Barrier

Fear of ophthalmic surgery was a nearly universal feeling, as observed in this study and corroborated by the literature. Alhibshi et al²⁶ reported that fear of complications deterred 14.1% of medical students in Saudi Arabia from considering refractive surgery. Interestingly, 50.3% expressed distrust due to the observation that many ophthalmologists themselves wore glasses. Similarly, a Brazilian study identified ineffective communication between physicians and patients, with 60% of respondents reporting that refractive surgery was never discussed during ophthalmology consultations.²⁷

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Overcoming fear often requires external encouragement. The influence of friends and family played a decisive role, as exemplified by Hera: "My sister and brother both had the surgery and encouraged me to do it, without fear!" This dynamic echo the archetype of the "hero", as described by Peterson (1999).²⁸ The hero represents transformative adaptation, turning the unknown into opportunity. In this context, the "hero" often took the form of a friend, relative, or colleague who shared their positive surgical experience, inspiring others to follow.

The influence of friends and family on overcoming surgical fears highlights the importance of trust in not only the procedure but also the medical professionals performing it. Patients often rely on personal recommendations and shared experiences to mitigate their concerns; this underscores the need for strong patient—physician relationships built on trust and clear communication.

Sacrifice and Adaptation: The Path to Satisfaction

The process of adaptation formed the fourth theme, marked by challenges such as worsened distance vision, night light distortions and loss of productivity. All patients complained of optical disturbances caused by lights at night and – to emphasize the importance of the phenomenon – we called this set of complaints "the night terrors", but we do not directly question the characteristics of light distortions, which could be probably classified into halos, glare and starbursts²⁹ – after all, quantifying the incidence of these phenomena was not the objective of the research. This side effect is consistent with Goldberg's (1985)²⁹ and Evans (2007)³⁰ early warnings about the optical effects of monovision LASIK in hyperopic patients, and participants also frequently described headlights and streetlights as disorienting, a phenomenon partly explained by the Pulfrich effect,⁴ which distorts depth perception due to delayed visual processing in one eye.

Adaptation times to these unwanted effects varied widely among participants, from as short as 30 days to as long as a year. The variation in adaptation times observed in this study may be partially explained by psychological factors such as personality traits. Patients with more flexible personalities may be more adaptable to the changes introduced by monovision LASIK, while those with higher expectations or perfectionistic tendencies may struggle with the adaptation process.

Surgical Outcomes: Freedom and Final Judgment

The fifth and final theme focused on the effects of surgery, with "freedom" emerging as a dominant subtheme. Participants celebrated their newfound independence from glasses, with Dionysus noting: "The question of freedom! That you no longer depend on glasses."

Beyond practicality, the psychological benefits of freedom were evident, aligning with findings from Berdeaux et al,³¹ who used the **Freedom from Glass Value Score** (FGVS)³² to assess postsurgical satisfaction and described patients consistently reporting improved self-esteem and quality of life after abandoning glasses. However, not all participants shared this sentiment. Helios, the sole dissenting voice, described the surgery as unnecessary, reminding us of the importance of careful patient selection and individualized care.

As Bardin (2011)³³ argued, even a single contradictory opinion holds value, challenging assumptions and emphasizing the need for a patient-centered approach. Helios' perspective highlights the importance of understanding patient expectations and prioritizing their unique needs during surgical consultations.

Limitations and Clinical Implications

Our study presents several notable limitations. As observed in the qualitative research by Blancafort Alias et al (2022),³⁴ the COVID-19 pandemic interrupted in-person interviews, necessitating a shift to video calls to ensure the continuation of the study. This change likely influenced the perceptions of participating patients, particularly regarding hygiene as a motivational factor, which was more frequently cited in video interviews. Another limitation, perhaps the most critical, is the presence of only one dissatisfied participant regarding the outcomes of LASIK monovision. We acknowledge that including more divergent perspectives would have enriched the findings and discussion.

However, we argue that dissatisfied individuals often refrain from attending to follow-up appointments or participating in interviews of this nature. Given the choice between waiting for more spontaneous returns—feasible only after mandatory restrictions were lifted—or proceeding with one dissenting voice to represent a broader group, we chose the

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latter. This decision underscores a fundamental difference between qualitative and quantitative research: in qualitative studies, the depth and richness of individual accounts take precedence over sample size. This distinction may be challenging for readers less familiar with qualitative methods, particularly ophthalmologists, who are typically more accustomed to data-driven numerical analyses in academic literature.

Despite these challenges, the qualitative exploration of presbyopia and LASIK monovision represents a novel contribution to the scientific literature. This alternative perspective on refractive surgery provides valuable insights for the medical community, enhancing understanding of the psychological and social impacts of presbyopia and helping identify personalized factors for selecting surgical candidates. For these reasons, we believe our study offers meaningful contributions to the treatment of this unavoidable condition, which ophthalmologists address on a daily basis.

Conclusion

This study highlights the psychosocial impact of presbyopia and the potential of LASIK monovision to address both visual and emotional challenges. Although the procedure is effective for many, the study notes the need for further research to include more patients with negative outcomes. It emphasizes the importance of considering individual motivations and psychological factors during candidate selection. Ophthalmologists should personalize consultations, addressing both functional and emotional needs, providing clear information, understanding patient concerns, offering support, and setting realistic expectations to build trust and improve satisfaction.

Data Sharing Statement

Article derived from a doctoral thesis entitled: Worsening of near vision as a sign of aging: perceptions of patients undergoing laser refractive surgery for presbyopia and hyperopia – a qualitative study defended by Ermano de Melo Alves in the Graduate Program in Ophthalmology and Visual Sciences at the Federal University of São Paulo, UNIFESP, São Paulo School of Medicine, in 2024. The data supporting the results of this study, including interview transcripts and audio recordings, will not be shared due to privacy and confidentiality concerns. However, data may be made available upon reasonable request to the corresponding author.

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Author Contributions

All authors made a significant contribution to the work reported, whether that is in the conception, study design, execution, acquisition of data, analysis and interpretation, or in all these areas; took part in drafting, revising or critically reviewing the article; gave final approval of the version to be published; have agreed on the journal to which the article has been submitted; and agree to be accountable for all aspects of the work.

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