Patient acceptability of the Tecnis® multifocal intraocular lens

Priyanka Sood1
Maria A Woodward2

1Emory Eye Center, Atlanta, GA, USA; 2Kellogg Eye Center, Ann Arbor, MI, USA

Abstract: Cataract surgery has evolved. The goal of the surgeon includes both restoration of vision and refinement of vision. Patients’ desire for spectacle independence has driven the market for presbyopia-correcting cataract surgery and development of novel intraocular lens (IOL) designs. The Tecnis® Multifocal Intraocular Lens incorporates an aspheric, modified anterior prolate IOL with a diffractive multifocal lens design. The design aims to minimize spherical aberration and improve range of focus. The purpose of this review is to assess patient acceptability of the Tecnis® multifocal intraocular lens.

Keywords: Tecnis®, intraocular lens, multifocal, presbyopia

Introduction

Presbyopia-correcting intraocular lenses are designed to provide freedom from glasses after cataract surgery. Monofocal intraocular lenses (IOL) are designed to provide excellent visual acuity at a single, fixed focal length; thus, if patients are corrected for distance, they require spectacle correction for reading vision.1 The importance of independence from glasses should not be undervalued. In one study, 10% of patients with presbyopia reported a willingness to trade 5% of their life expectancy to be rid of presbyopia.2 Thus restoration of both distance and near vision is a goal of the ophthalmologist. While medical treatments have failed to restore the accommodative abilities of the natural lens, modern cataract surgery with intraocular lens implantation is a specific time point where a surgical intervention to improve near vision is possible. However, replicating the optics of the young, accommodative lens remains a challenge.

Multifocal IOLs, developed in the last two decades, are a response to this challenge. Lenses are categorized as diffractive IOLs and refractive IOLs based on lens design. Comparison of multifocal and monofocal IOLs shows that multifocal IOLs improve near vision and lead to spectacle independence more often than monofocals.3–8 However, symptoms of decreased visual acuity and photic phenomena are a source of patient dissatisfaction with multifocal lenses and are reported with higher frequency.9

Many types of presbyopic-correcting lenses are available for implantation today. Currently in the United States, multifocal lens options include the ReZoom® lens (Abbott Medical Optics Inc, Santa Ana, CA), the ReSTOR® lens (SA60D3, Alcon Laboratories Inc, Fort Worth, TX), and the Tecnis® lens (ZM900, ZMA00, ZMB00, Abbott Medical Optics Inc, Santa Ana, CA). The alternative presbyopia-correcting lens is the Crystalens® (Eyeonics and 1CU, AlisoViego, CA; Human Optics, Erlangen, Germany).
Alternative lens designs, including fully accommodating intraocular lenses, are currently available outside of the United States or are in clinical trial. In a recent review, Lane et al discussed the ReZoom® and ReSTOR® lenses in detail. Briefly, the ReZoom® lens is a three-piece multifocal lens with multiple refractive optical zones. The annular rings (zones) provide focus at different distances and are proportioned to provide quality near, intermediate, and distance vision. The ReSTOR® lens is an apodized, diffractive one-piece lens. The diffractive grating is on the anterior surface of the lens. The Crystalens uses a hinged plate-optic design to allow anterior movement of the optic to provide a small range of accommodation. Multiple clinical trials and reviews of these lenses are available in the literature.

**Evolution of Tecnis® lens design**

The first generation of Tecnis® was a monofocal, aspheric, anterior-modified prolate lens (ZA9000 series). The Tecnis® lens was designed to minimize spherical aberrations and improve contrast sensitivity after cataract surgery with lens implantation. In younger patients, the negative spherical aberration of the crystalline lens and the positive spherical aberration of the cornea together create a nominal overall aberration. Spherical aberration increases with age as the lens gains positive aberration; this contributes to decreased visual function. Visual quality with intraocular lenses has been shown to be worse than the natural lens in age-matched controls. The Tecnis® lens was designed to add negative spherical aberration into the optical system, thus reducing the total spherical aberration. By reducing total aberration, the lens should reduce positive photic phenomena of glare and halos. Researchers reported that the Tecnis® lens provided improved subjective quality of vision, corrected visual acuity (CVA), and contrast sensitivity at various distances and in varied lighting conditions. The anterior-modified prolate design platform was used in the multifocal version of the Tecnis lens.

The multifocal Tecnis® lens diffraction pattern creates two major focal points that correspond to approximately 3.0 D on the spectacle plane. This design splits the light to be distributed among near and distant focus regardless of pupil size. The Tecnis® multifocal lens is a full diffractive optic versus an apodized diffractive optic of the ReSTOR® lens. Researchers have hypothesized that pupil size can affect the quality of vision; therefore, the full diffractive optic should make vision independent of pupil size. On the other hand, the apodized diffractive design (ReSTOR® lens) distributes light preferentially in the distance for large pupil sizes. These contrasting features are based on different theories of how lens design relates to visual quality. In addition, the diffraction pattern of this lens is on the posterior surface of the lens (as compared to the ReSTOR® lens on the anterior surface of the lens) and the multifocal lens has the aspheric prolate technology of the monofocal lens platform. In this article, we will discuss the design of the Tecnis® lens and outcome measures that determine patient acceptability and lens efficacy of the Tecnis® multifocal lens.

Initially, the Tecnis lens was available only as a three-piece silicone lens (ZM900); within the past two years, a three-piece acrylic diffractive lens (ZMA00) and a one-piece acrylic diffractive lens (ZMB00) have been approved by the FDA. The majority of the research in the literature was performed with the ZM900 lens model. Hutz et al performed a randomized trial to compare the visual outcomes in patients implanted with the diffractive silicone multifocal in one eye and the diffractive Tecnis® ZMA00 acrylic multifocal IOL in their fellow eye. Forty-two eyes of 21 cataract patients were randomized to either group and outcome measures were tested at six months and included uncorrected visual acuity (UDVA), best corrected distance visual acuity (CDVA) and corrected near visual acuity (CNVA), spherical equivalence, reading speed and acuity and photic phenomena. There were no significant differences between the two lens materials; both lenses provided excellent visual results.

**Visual acuity**

Outcomes based on visual acuity with multifocal lenses are divided into measurements of distance, intermediate, and near visual acuities. They are further subdivided into corrected and uncorrected (typically with spectacles) acuities. Near visual acuity is further subdivided into uncorrected, distance-corrected, or near-corrected visual acuities (UNVA, DCNVA, CNVA). While this may seem excessive, distance corrected visual acuities at distance and near can be used to determine if refractive surgery (for the distance prescription) would resolve postoperative complaints of blurred vision.

Comparison studies, retrospective reviews, and case series of the Tecnis® multifocal lens (ZM900) have shown promising results (Table 1). Goes performed a prospective case series of 59 eyes of 30 patients with the Tecnis® ZM900 (one eye was excluded secondary to a history of amblyopia). Ninety percent of patients achieved 20/30 UCVA (0.087 ± 0.085). All patients could read 20/20 and 90% read J1 (0.133 ± 0.095). Near visual acuity also improved from one month to six months postoperatively. Fifteen eyes...
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multifocal (ZM001, an older version of the ZM900) to the Array® SN40 and to the ReSTOR® SA60D3 to evaluate reading performance. At one year, they evaluated reading speed (distance corrected and uncorrected) in 30 pts (n = 10 per group) at 40 cm, 60 cm and 80 cm under low (6 cd/m²) and bright (100 cd/m²) light conditions. Under low light conditions, the Tecnis® lens had significantly better near visual acuity outcomes. Under bright light conditions, the difference between groups was less. Mean reading speed with UCVA and DCVA was significantly faster in the Tecnis® group.

Cillino et al compared visual acuity outcomes in multifocal IOLs (Tecnis® ZM900, Array® SA40N, ReZoom®) with a monofocal IOL (AR40) in a randomized, prospective clinical trial looking at 62 consecutive patients. At twelve months postoperatively, the UCVA was ≥20/30 in all groups, and the BCVA was ≥20/20 in all groups without statistically significant differences. The Tecnis® group tended toward improved monocular UCVA and DCVA. The Tecnis® lens also improved intermediate vision comparing to either monofocal or refractive multifocal IOLs. Palmer et al also compared visual function in multifocal IOLs (Tecnis® ZM900, TwinSet®, ReZoom®) with a monofocal IOL (Tecnis® Z9000) in a prospective, randomized trial. At one and three months, binocular distance UCVA was similar in all groups; however, distance BCVA was better with the ReZoom® and monofocal Z9000 lens compared to both diffractive multifocal lenses. The lenses performed similarly for binocular NCVA. Not surprisingly, multifocal lenses performed better for distance corrected near VA than the monofocal lens. Other non-randomized trials support the conclusion that the Tecnis® ZM900, as compared to other multifocal diffractive or refractive lenses, provides equivalent or better visual acuity at distance and near, with or without correction.

In summary, evidence from numerous studies supports the conclusion that the Tecnis® lens (ZM900) provides equivalent, if not improved, distance uncorrected visual acuity when compared to other multifocal lenses; it is controversial if the lens provides equivalent UCVA compared to monofocal lenses. Consistent with other diffractive lenses, the Tecnis® lens performed similarly or better at near when compared to refractive lenses. The significant advancement provided by this lens is the relative ‘pupil independence’ of the lens. Notably, diffractive lenses have previously been reported to provide worse intermediate visual acuity when compared to their refractive counterparts. Tecnis® has been shown in some studies to underperform its refractive counterparts and in others it has provided equivalent or better
intermediate visual acuity.\textsuperscript{24} Studies have also shown that this lens performs better in low light conditions compared with other multifocal lenses.\textsuperscript{28}

**Patient satisfaction and spectacle independence**

Patient acceptance of a presbyopic-correcting lens ultimately is determined by patient satisfaction and spectacle independence. Outcomes and optical features unique to each lens help guide discussions between the physician and patient regarding proper lens selection and realistic visual expectations. Proper preoperative counseling regarding expectations and limitations strongly influence patient selection and, ultimately, acceptance of the lens.

In the initial FDA nonrandomized clinical trial, Packer et al reported that 94.6\% of patients would choose the Tecnis\textsuperscript{®} ZM900 again versus 89.6\% patients with the Cee-On\textsuperscript{®} lens.\textsuperscript{13,20} Bautista et al reported on the patients’ subjective assessment of their vision. Thirty-nine percent of patients rated their vision as excellent, 51.2\% rated their vision as good while 2.4\% rated their vision as poor.\textsuperscript{21} Satisfaction was similar regarding near or distance vision and improved over the duration of the study (150–210 days).

Similarly, Mester et al assessed patient acceptance at four to nine months after lens implantation with the Array\textsuperscript{®} SA40 and the Tecnis\textsuperscript{®} ZM900.\textsuperscript{17} Overall satisfaction was good with 88\% of Tecnis\textsuperscript{®} ZM900 patients and 78\% of Array SA40 patients being very satisfied or satisfied. Forty-four percent of Tecnis\textsuperscript{®} patients were very satisfied (versus 28\% of Array\textsuperscript{®} patients). No Tecnis\textsuperscript{®} patients reported being unsatisfied. Goes reported that 96.4\% of patients reported being “very satisfied” with the procedure and would choose the same lens again.\textsuperscript{18} In summary, over 85\% of patients report being satisfied with the Tecnis\textsuperscript{®} lens.

In a randomized prospective trial comparing the Tecnis\textsuperscript{®} ZM900, ReZoom\textsuperscript{®}, Array SA40, and the monofocal AR40, patients showed no difference in overall rating of satisfaction between groups ($P = 0.07$).\textsuperscript{25} However, patients completed a visual function questionnaire (VF-7) that assesses difficulties in vision-dependent activities of everyday life and has been shown to correlate with patient satisfaction after cataract surgery.\textsuperscript{31} Multifocal lenses had significantly higher scores compared to the monofocal lens. Not surprisingly, analysis of the data revealed that scores were driven higher on questions about near visual tasks (small print, fine hand work).\textsuperscript{25}

Spectacle independence is a factor in patient satisfaction because it is the main reason patients choose multifocal lens implantation. Packer et al showed that patients with Tecnis\textsuperscript{®} MIOL achieved spectacle independence 88.4\% of the time versus 5.2\% in CeeOn\textsuperscript{®} patients ($P < 0.0001$).\textsuperscript{13} On a rating scale of one to ten, the mean rating of vision without spectacles was 8.9 $\pm$ 1.4 for Tecnis\textsuperscript{®} and 7.9 $\pm$ 2.0 for CeeOn ($P < 0.0001$). Mester et al reported spectacle independence in 82.6\% of Tecnis\textsuperscript{®} patients (versus 33.3\% of Array\textsuperscript{®} SA40).\textsuperscript{17} Four Tecnis\textsuperscript{®} patients required glasses (one for near correction) compared to 16 Array\textsuperscript{®} patients (twelve for near correction). Palmer et al reported spectacle independence in 77\% of ZM900 patients (versus 87.5\% of TwinSet\textsuperscript{®} patients, 44\% of ReZoom\textsuperscript{®} patients, and 4\% of the monofocal control (Z9000) patients.\textsuperscript{22} Cillino et al reported spectacle independence in 87.5\% of Tecnis\textsuperscript{®} patients.\textsuperscript{25} And Goes et al reported spectacle independence in 92.8\% of Tecnis\textsuperscript{®} patients.\textsuperscript{18} Across studies, spectacle independence ranged from 77\% to 92.8\% in patients with the Tecnis\textsuperscript{®} MIOL thus significantly out performing monofocal lenses. Additionally, Tecnis\textsuperscript{®} seemed to provide equivalent, if not improved, independence compared to other multifocal lenses.

**Photic phenomena**

Visual phenomena interfering with vision strongly influence patient satisfaction. When these phenomena interfere extensively with vision, a patient’s tolerance of the intraocular lens diminishes and an intraocular lens exchange may be required. Intraocular lenses can cause positive dysphotopsias (glare, halos, starbursts, etc) and negative dysphotopsias (shadows, dark crescents, etc). Multifocal lens design, with concentric rings of optical zones, creates positive dysphotopsias, also called photic phenomena, at higher rates than monofocal lenses.\textsuperscript{5} Reported complaints of photic phenomena vary across studies ranging from 22.4\% to 81\%.\textsuperscript{13,17,18,21–23} Variability in reporting and outcomes could be secondary to method for reporting symptoms (solicited questions versus patient-generated complaints), completeness of chart notes, or study type variations.

In a prospective, noncomparison study of the ZM900 lenses, Bautista found that halos and glare were reported in 22.4\% of patients (20.4\% with mild symptoms, 2\% with moderate symptoms, 0\% with severe symptoms).\textsuperscript{21} The symptoms improved (trend, not statistically significant) from initial postoperative visits to 150 to 210 days after surgery. Goes surveyed patients regarding occurrence of photic phenomena.\textsuperscript{18} Although individual question results were not reported, the most common complaint was photic phenomena (halos and glare). At six months, no patients reported severe glare, 7.2\%...
reported moderate glare, and 92.8% were asymptomatic. Between 3% and 4% of patients reported severe difficulty with night driving.

Studies that specifically asked patients about photic phenomena found significantly more frequent complaints. In the Akaishi et al study, severe glare and halos were reported in 6% and 2% of patients, respectively, and moderate glare and halos were reported in 26% and 16% of patients, respectively.\(^2\) Palmer et al reported that dysphotopsias occurred in 81% of ZM900 eyes, 47% of TwinSet® eyes, 53% of ReZoom® eyes, and 48% of monofocal patients.\(^2\) However, spontaneous, unprovoked patient complaints of dysphotopsias occurred in 16% to 19% of eyes with MIOLs versus 0% of eyes with monofocal lenses (\(P = 0.01\)).\(^2\)

At one year, Packer et al surveyed patients about difficulty with their vision. They found the most frequently reported symptoms to be night glare in 15.5% (10.3% moderate and 2.6% severe) and halos in 22.4% (mild 12.1%, moderate 5.2% and severe 5.2%).\(^1\) The monofocal (Cee-on®) group reported glare and halos in 4.3% and 8.6% respectively. Photic phenomena are experienced by patients, but proper assessment of outcomes requires solicitation of symptoms by the physician.

**Contrast sensitivity**

Palmer et al compared contrast sensitivity of the Tecnis® ZM900, ReZoom®, TwinSet®, and Tecnis® monofocal Z9000 using the Functional Acuity Contrast Test (FACT) chart.\(^2\) (The FACT chart uses Gaussian sine-wave gratings to measure contrast sensitivity of varied spatial frequencies and contrast levels.) With BSCVA under mesopic (10 lux) and scotopic (1 lux) luminance levels, the monofocal Z9000 group had the best results that were statistically significant. Other comparisons of the Tecnis® multifocal to monofocal lenses show a trend toward worse contrast sensitivity with the multifocal lens.\(^1\) Similar to other multifocal lenses, the Tecnis® lens is not a perfect replica of the natural lens. Bautista et al found that the visual performance (under photopic conditions with BCVA) of the ZM9000 lens underperformed compared to expected results from normal eyes on the Pelli–Robson test of contrast sensitivity.\(^2\)\(^,\)\(^3\) Inuoe et al designed model eyes with refractive and diffractive multifocal lenses to assess image quality for purposes of vitreoretinal surgery.\(^3\) Not surprisingly, the lenses behaved consistently with their design—images through the near zones of the ReZoom® lens were blurred, a slight defocus occurred centrally in both diffractive lenses, and significant blur occurred in the peripheral portion of the full-diffractive lens (Tecnis® ZM900).

In the Palmer study, there were no statistically significant differences between the multifocal lenses in scotopic or mesopic conditions.\(^2\) This result has been supported in other studies. Mester et al compared contrast sensitivity of the Tecnis® ZM900 to the Array lens using the FACT chart.\(^1\) Similar to the other study, there were no statistically significant differences under photopic conditions; however under mesopic conditions, the Tecnis® group had improved contrast sensitivity at the highest frequencies (\(P < 0.05\)) Gieriek-Ciuciura et al compared contrast sensitivity of ReZoom®, ReSTOR®, and Tecnis® ZM900 and found no difference in contrast sensitivity amongst these multifocal lenses.\(^2\) Contrast sensitivity is a known potential drawback of multifocal lenses, and the Tecnis® lens is not an exception.

**Neural adaptation**

Tolerance to visual phenomena generated by multifocal lenses has been shown to improve over time. Researchers believe that the brain adapts to the altered visual input over time by a process called neural adaptation. Goes found significant near visual acuity improvement over six months even when refractive error remained stable (0.175 ± 0.122 logMAR to 0.127 ± 0.094 logMAR at one and six months, respectively (\(P = 0.005\)).\(^1\) During this time they reported that complaints of dysphotopsias decreased, although no statistical values were given. Bautista et al reported statistically significant improvement of distance and near visual acuity with the ZM9000 lens between initial, 1- to 3-month, and 5- to 7-month postoperative visits.\(^1\) They reported that only a portion of patients improved over the course of the study.

Several studies hypothesize that neural adaptation plays a role in the visual outcomes of MIOLs.\(^1\)\(^,\)\(^17\)\(^,\)\(^34\)\(^,\)\(^35\) Although results of neural adaptation training are controversial, Kaymak et al examined how training affected visual performance with ReSTOR® and Tecnis® multifocal IOLs.\(^3\) Patients (eight bilateral ReSTOR and eight bilateral Tecnis® implantation) received computer-based visual training of one eye at six weeks after surgery. Although study numbers were small, there was a statistically significant improvement in distance and near visual acuity in the trained versus untrained eyes at six months (\(P < 0.01\)). No differences were noted between the two lenses. Thus, similar to other multifocal lenses, the Tecnis® lens is better tolerated over time.

**Conclusion**

In summary, evidence from numerous studies supports the conclusion that the Tecnis® lens (ZM900) provides...
equivalent, if not improved, distance uncorrected visual acuity when compared to other multifocal lenses. The studies reviewed conclude that patients with Tecnis® multifocal lenses are more likely to be spectacle independent (compared to other multifocal lenses). Patients with Tecnis® lenses experience photic phenomena and have similar contrast sensitivity to patients with other multifocal lenses. The change to an acrylic platform (ZMA00 and ZMB00) did not affect visual outcomes when compared to the silicone model (ZM900) and provided the option of a one-piece lens design (ZMB00). The Tecnis® multifocal lens gives surgeons a novel alternative, in both lens design and platform, to use in multifocal lens implantation.

Financial support
Supported in part by Research to Prevent Blindness, Inc, New York, NY.

Disclosure
The authors have no financial interests in any of the products or topics mentioned in this report.

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