



ilumin Eye Care Center Offers Virtual Reality Lens Simulation During Cataract Surgery Consultations in Omaha, Nebraska

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ilumin Eye Care Center, an ophthalmology practice located in Omaha, Nebraska, is the first practice in Omaha to include VirtuaLens, a virtual reality lens simulation, in the cataract surgery consultations it provides to patients in Omaha and the surrounding communities. The simulation allows patients to view how different intraocular lens types are designed to perform in everyday visual settings before discussing lens selection with a surgeon. A patient resource article published by the practice, "Can You Preview Your Vision Before Cataract Surgery? Answers for Omaha Patients," documents how the technology works, what it demonstrates, and which factors remain dependent on individual clinical measurements.

Patients throughout Omaha, Council Bluffs, Bellevue, and Papillion who are evaluating cataract surgery at ilumin Eye Care Center choose among monofocal, toric, presbyopia-correcting, and Light Adjustable intraocular lenses. The practice's article notes that these categories are conventionally described through terminology such as extended depth of focus or reduced dependence on glasses, phrases that reference visual experiences a patient has not yet had. The simulation, a virtual reality platform called VirtuaLens that was built for cataract education, addresses that gap in three steps. A patient selects a scene such as

nighttime driving, a kitchen, or an outdoor activity, toggles between lens types within that same scene, and compares the options side by side.

According to the article, the simulation can also model conditions a patient is already experiencing, including astigmatism, nearsightedness, farsightedness, presbyopia, and the glare, halos, and starbursts that make night driving more difficult for many cataract patients. The practice reports that seeing those effects represented visually tends to prompt questions patients would not have raised from printed material alone. The experience takes approximately three to five minutes and occurs during the cataract consultation already scheduled at the practice's Lakeside office in Omaha, with no separate appointment and no additional cost. Patients keep their glasses on throughout, and because the platform presents a fixed scene rather than movement through one, patients sensitive to motion generally tolerate it without difficulty. A self-guided mode is available for patients who prefer to review the scenes at their own pace, and the platform supports multiple languages. The same lens categories apply to refractive lens exchange, which ilumin Eye Care Center also performs for patients in the Omaha metro area. Alongside cataract surgery, the practice provides glaucoma treatment, retinal care, and comprehensive eye exams to residents of Omaha, Bellevue, and Council Bluffs.

"Patients who've tried the simulation tend to ask sharper questions," said Dr. Peter Simone, MD, PhD, board-certified ophthalmologist and Fellow of the American Academy of Ophthalmology at ilumin Eye Care Center. "They've already seen the lens differences in action, so we can spend our time on what matters for their eyes specifically, rather than starting from scratch." Dr. Simone holds an MD with Distinction and a PhD from the University of Nebraska Medical Center and completed a refractive surgery fellowship through the Refractive Surgery Alliance.

The article states that the simulation does not predict an individual patient's result. Corneal shape, axial length, retinal health, healing, and any coexisting conditions determine the actual outcome, and the surgeon evaluates each of those before recommending a lens. "The headset shows how a lens category is designed to behave in a given setting. It does not measure a cornea or the length of an eye, and those measurements are what determine which lens a patient receives," said Dr. Brandon Menke, MD, board-certified ophthalmologist at ilumin Eye Care Center. Dr. Menke, who authored the article, earned his medical degree from the University of Iowa Carver College of Medicine, completed a Doris Duke Clinical Research Fellowship in retinal regeneration, and serves as Adjunct Assistant Professor of Oculoplastic Surgery at the University of Nebraska Medical Center.

ilumin Eye Care Center is located at 16820 Frances Street, Suite 100, Omaha, NE 68130, and serves patients seeking cataract surgery, glaucoma treatment, and retinal care throughout Omaha, Council Bluffs, Bellevue, and Papillion. Cataract consultations, including the lens simulation, take place at the Lakeside office in west Omaha, and driving directions are available through Google Maps. The practice traces its lineage through more than 100 years of eye care history in the community and can be reached at

402-933-6600.

For more information about cataract surgery at ilumin Eye Care Center in Omaha, Nebraska, visit ilumineyes.com or view the practice's Google Business Profile. ilumin Eye Care Center continues to provide cataract surgery, glaucoma treatment, retinal care, and comprehensive eye exams to patients across Omaha and the surrounding communities.

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For more information about ilumin Eye Care Center, contact the company here: ilumin Eye Care Center@maddexkopp@aligned.vision 402-933-6600 info@ilumineyes.com 16820 Frances St #100, Omaha, NE 68130

ilumin Eye Care Center

ilumin is Omaha's premier provider of medical and surgical eye care. The ophthalmologists at ilumin offer refractive correction such as LASIK and RLE, treat medical conditions like cataracts and glaucoma, and provide general optical care.

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