POINT/COUNTERPOINT: SHOULD LASIK BE REBRANDED?

Experts debate whether the leading refractive surgery procedure needs a new name.

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Point: A LASIK Rebrand is in Order

By Soosan Jacob, MS, FRCS, DNB; Amar Agarwal, MS, FRCS, FRCOphth; and Marc Mullie, MD, FRCSC

Rebrand Refractive Surgery by Introducing a New Procedure



Soosan Jacob, MS, FRCS, DNB; and Amar Agarwal, MS, FRCS, FRCOphth Corneal refractive surgery has evolved over the years, progressing through techniques from cuts in the cornea (RK), to excimer laser surface ablation

(PRK), to intrastromal ablation under a flap (LASIK). The last of these approaches has been the most successful technique thus far, with widespread worldwide acceptance and penetration.

The LASIK flap itself has evolved, from being created with a mechanical microkeratome to being cut with a femtosecond laser. As with the evolution of medicine and any other surgical technique, refinements keep occurring, and rebranding of a procedure as something that is better, with definite advantages over the older version, is a perpetual phenomenon.

Based on extensive work by Sekundo et al¹ and Shah et al,² among others, small incision lenticule extraction (SMILE) is a recently introduced technique for refractive error correction that uses a femtosecond laser to create an intrastromal lenticule corresponding to the patient's refractive error. This is done by creating two lamellar cuts: a posterior lenticule cut and an anterior cap cut, corresponding to the posterior and anterior surfaces of the lenticule, respectively. These two cuts intersect, and the intrastromal lenticule is then extracted through an incision that can be as small as 2 mm (Figure 1). The cap can be set to varying thicknesses; at present, a thickness of 120 µm is most commonly used.

It is our thought that, instead of rebranding LASIK specifically, we rebrand refractive surgery generally. This can be achieved by introducing patients to SMILE, the newest refractive surgery procedure. The advantages that this technique offers are numerous. For starters, the absence of a flap and the use of a small incision together act to eliminate flaprelated complications such as striae, flap dislodgement, and epithelial ingrowth. Similarly, because of decreased disruption of the anterior corneal innervation, there is faster recovery of corneal sensitivity and less patient experience of dry eye than is seen with LASIK.³ Most important, the presence of the nearly intact anterior stromal layer of the cornea allows better maintenance of biomechanical strength after SMILE compared with LASIK.^{4,5} The entire procedure is completed with a single

AT A GLANCE

WHAT YOUR PEERS ARE SAYING ABOUT LASIK REBRANDING

- Instead of rebranding LASIK specifically, it could be beneficial to rebrand refractive surgery generally.
- Because the surgical procedure of LASIK has changed so much, and the surgical results it provides have improved so much, it may benefit from a new name.
- Ophthalmologists talk about LASIK volumes being down, but it is likely more informative to look at refractive surgery volume overall.
- Instead of a total rebranding, what LASIK may need is increased public awareness of the safety of modern LASIK and the fact that now almost any complication can be fixed.
- LASIK is far from dead. The practices that will succeed in refractive surgery in the coming years will be those that figure out how to reach and attract the new, emerging market of millennials.

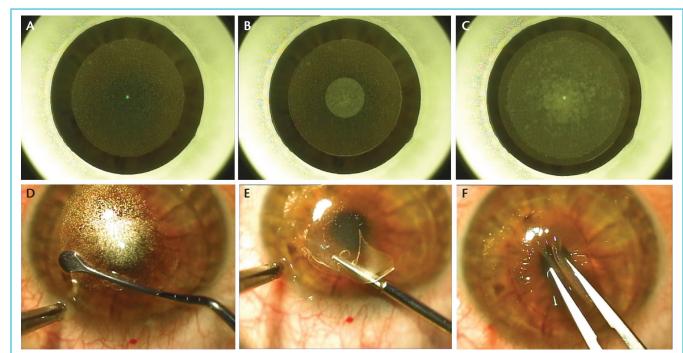


Figure 1. Posterior lenticule cut is completed (A); lenticule sidecut is completed and anterior cap cut has commenced (B); anterior cap cut and SMILE incision are completed (C); lenticular dissection proceeds (D); lenticule being extracted with microforceps (E); SMILE lenticule seen after extraction (F).

laser, thus decreasing surgical time and costs compared with LASIK using both excimer and femtosecond lasers. All these advantages, along with visual and refractive outcomes similar to those of LASIK, give SMILE a superior edge over LASIK.^{6,7} Disadvantages include inability to treat hyperopia with SMILE and absence of correction for cyclotorsion.^{8,9} However, nomogram adjustments may be made for the latter.

Patients with access to this procedure often prefer the advantages that SMILE offers and opt for it over LASIK. Further improvements will come along for this technology, including better and faster lasers, smaller incision cuts, better nomograms, better astigmatic correction, and identification and compensation for cyclotorsion. However, even now, this evolution in refractive surgery has come into its own. This will allow us to rebrand refractive surgery with a SMILE, as we can describe to our patients the distinct advantages this new procedure offers.

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Why We Need a New Acronym to Replace LASIK



Marc Mullie, MD, FRCSC After more than 20 years, the acronym *LASIK* has become a dirty five-letter word, especially on the Internet. A procedure that was introduced more than 20 years ago and that took as many years to perfect has attracted to itself many

negative comments, reviews, and testimonials on the Web, some of them quite old. Many websites are blindly devoted to badmouthing LASIK on the basis of complications that occurred 15 to 20 years ago. Because of this, and despite the overwhelmingly great results achieved with LASIK, the word induces fear, negativity, and confusion in many people. We may need a new name. But why?

When you think about it, little of what we were doing surgically when the term LASIK was introduced 20-plus years ago still exists. Back then we created flaps with crude mechanical keratomes and ablated corneas with broadbeam laser profiles, small optical zones, and poor or nonexistent eye tracking. We now employ femtosecond lasers for flap creation and high-speed, small-spot excimer lasers with large optical zones for ablation, using wavefront-optimized or topographic profiles, with superb eye trackers. So if the surgical procedure has changed so much, and the surgical



The term LASIK just ain't so sexy any longer. We have tried all kinds of marketing makeup to cover the LASIK wrinkles over the years, and they have not worked, so how about how about a surgical, etymological facelift?

-Marc Mullie, MD, FRCSC

results it provides have improved so much, why not give it a new name?

Try explaining to patients the origin of the term LASIK from *laser-assisted in situ keratomileusis*—and watch as the blank stares come over their faces. The word *keratomileusis*, coined by Barraquer in the 1960s, referred to mechanical excision of tissue, not a laser ablation, so in a sense there is an internal contradiction in the term LASIK.

I hereby propose the term LACOREX (pronounced *Ley-co-rex*), an acronym for *laser corneal excision*, a simple term that the lay audience can readily understand. It is broad enough to encompass all variations of modern LASIK, easy to pronounce, easy to visualize in the mind's eye, and it suggests the use of lasers to excise tissue from the core of the cornea (ie, in the stroma, under a flap).

An alternative might be LACORE (pronounced *Leycore*), an acronym for *laser corneal reshaping*. To my mind, LACOREX is the better choice: It sounds more surgical and precise, and it is easy to pronounce in many languages.

The term LASIK just ain't so sexy any longer. We have tried all kinds of marketing makeup to cover the LASIK wrinkles over the years, and they have not worked, so how about a surgical, etymological facelift?

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Counter: LASIK is Fine as Is

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Rebranding LASIK in 2016 is Missing the Point



Michael Lawless, MBBS, FRANZCO, FRACS The two biggest things that have made a difference to my refractive surgery practice over the past 2 years have been the introduction of SMILE for anyone with more than 3.00 D of myopia, with or without astigmatism, and transepithelial

PRK. We have introduced these techniques without disparaging LASIK because we still need LASIK for hyperopes, for -2.00 D myopes, and just because some people are really keen on LASIK and are in the range where the difference between LASIK and SMILE is inconsequential. So, for anyone who is suitable for laser vision correction, there are three great choices: SMILE, LASIK, and no-touch transepithelial PRK.

Where is the branding of LASIK in this equation? Our service is not about LASIK, it is all about vision correction and making the right choice for the right patient. In the same way, it would be wrong to purely promote SMILE or no-touch transepithelial PRK because they will not be applicable to everybody. By promoting only one procedure, you are suggesting that other procedures are inferior. All three of these laser procedures offer great results when performed using the latest technology, in the right circumstances, for the right patient, by a good surgeon.

By all means, we can tell individual stories around new procedures, such as SMILE or no-touch PRK, or tout improvements in LASIK as they come along, but only within the context of the overwhelming good that comes from laser vision correction. We do not need to rebrand LASIK: We need to acknowledge that refractive surgery is more than LASIK, and we need to offer a range of procedures to address the right condition for each patient.

All Ophthalmologists Need Access to the Advanced Tools for Addressing Complications

Da D. Le eff ly irs

Dan Z. Reinstein, MD, MA(Cantab), FRCSC, DABO, FRCOphth, FEBO

Let us be clear: LASIK is an outstandingly safe and effective procedure. It is one of the most thoroughly researched procedures in modern medicine, and its safety and efficacy are extensively documented

in the literature.¹⁻⁶ Patient satisfaction after LASIK is extremely high, surpassing patient satisfaction with contact lenses.⁷ The procedure is also popular among refractive surgeons: 63% of refractive surgeon candidates responding to a recent survey had undergone laser vision correction.⁸ I was recently added to that list, having undergone Presbyond laser blended vision LASIK earlier this year.

These facts are not surprising given the amount of investment in research and development into LASIK over the past 30 years and the more than 50 million procedures performed to date. Clinicians and researchers have had ample resources and opportunity to develop and fine-tune both the technology and the procedure.

However, the penetration of LASIK among spectacle and contact lens wearers is probably still only about 1% to 2%. Why is the market penetration not comensurate with LASIK's phenomenal life-changing effects and extremely low risk profile? Most industries would consider such low adoption rates a commercial failure. These facts are not aligned.

What is the missing link? In my experience, the most common reason patients express for choosing not to have LASIK is the fear that "if something goes wrong, it can't be fixed." The unfortunate reality is that this statement used to be true; for the first 10 years of LASIK, there was literally nothing that could be done. And, although layered anatomic diagnostic imaging^{9,10} and some effective repair tools have been developed since then, such as topography-guided custom ablation^{11,12} and transepithelial PTK,¹³⁻¹⁵ these resources are not accessible to

THE SURGEONS DOWN THE STREET MAY NOT BE YOUR COMPETITION



By Guy M. Kezirian, MD, MBA, FACS

When refractive surgery has penetrated only 5% of the available market, the refractive surgeons down the street who provide good quality refractive surgery are not your competition. They are your social proof. Allow me to explain.

Refractive surgery will inevitably become the default treatment for appropriate refractive errors in the 21-to-40-year age group. The benefits to the individual include safety, convenience, cost, occupational fitness, appearance, and lifestyle. Major benefits also accrue to society, in both economics and workforce readiness. Reliance on glasses and contacts puts people, particularly young adults, at a significant financial and lifestyle disadvantage.

Although the many benefits of refractive surgery may be obvious to us, they are less so to the public. Refractive surgery has yet to reach the point at which the public accepts that eliminating refractive errors is normal. To reach that point, it will be necessary to flood communities with happy patients who have had refractive surgery and who as a result become ambassadors for our services. This will require a far greater participation rate than we have achieved to date. To reach this point, we must have several high-quality and active refractive surgeons in every market.

Blame for the slow growth of refractive surgery cannot be attributed to the public, nor are the spectacle and contact lens industries responsible. True, fear of surgery may be common, and the other industries do not want to see refractive surgery displace their markets. Nonetheless, the blame for the slow uptake of refractive surgery lies squarely with the misguided competitive marketing that characterizes our field. Refractive surgery marketing must pivot away from surgeons and technology and refocus on patient benefits if the field is to grow.

I believe that the primary market for refractive surgery in the next 10 years will be those in the millennial generation. This generation of tech-savvy and knowledge-rich consumers assumes that technology will work and that surgeons are competent. They are not impressed by advertising or comparative claims of excellence. Millennials do, however, respond to economics and opportunities for better living, both of which refractive surgery delivers.

Moreover, millennials rely on crowdsourcing and on each other for validation. For us to succeed, we must have more millennials having surgery so that they can provide the social proof needed to drive more patients to our doors.

So the next time a patient asks, "What do you think of the LASIK surgeons down the street?" our only answer should be, "They are great." Put aside your reservations that the other surgeons may use a different technology or be not quite as good as you are. Do not make it about you, make it about the patient. If we all do that for each other, public confidence will grow, and so will our field.

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—Michael Lawless, MBBS, FRANZCO, FRACS



the majority of refractive surgeons. Therefore, many patients with complications of LASIK are told that there is nothing more that can be done to help them, so the reputation of LASIK suffers when this expression is disseminated.

Most of us will probably never use the airbags in our cars, but few today would consider buying a car without them. I believe we are now in the era of LASIK with airbags, so to speak. We should be able to say to prospective patients, "If you have a complication, it would be extremely unlikely that we cannot fix it." This was the reason that we started a Therapeutic Refractive Surgery section in the *Journal of Refractive Surgery*.¹⁶ We hope that, by providing a rigorous scientific forum for developing technology and reporting such cases, we can foster increased speed of development of new techniques and expand knowledge to surgeons who are currently unable to treat patients with corneal irregularities. Eventually we hope to realize the final goal: Any LASIK surgeon should be able to fix anything that is fixable, not just a selected subset of surgeons.

Does LASIK need to be rebranded? I would say that it does not need a total rebranding; it needs increased public awareness of the safety of modern LASIK and of the fact that we can now fix almost any complication. However, this last element must become a focus for laser manufacturers. The repair modules and techniques now available only to experts must be turned into standard features and common knowledge, not optional add-ons. We have the technological components of the LASIK puzzle at our fingertips; we just need to figure out how to piece it all together.

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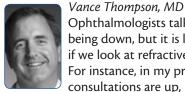
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We Need to Consider Refractive Surgery Overall



Ophthalmologists talk about LASIK volumes being down, but it is likely more informative if we look at refractive surgery volume overall. For instance, in my practice, refractive surgery

consultations are up, not down. It may be,

however, that today we are doing less LASIK and more lens work.

This is for a couple reasons. One is improved diagnostics. Take the example of a 55-year-old, 4.00 D myope who has come to us for LASIK. He reports some issues with nighttime image quality. As part of our workup, I will use the HD Analyzer (Visiometrics) and iTrace (Tracey Technologies) to see if there is optical scatter in the lens that might explain the nighttime issues. If I detect a degree of optical scatter in the lens, I will not do LASIK on that patient. I might talk to him instead about refractive lens exchange. Ten years ago, because he could be corrected to 20/20, I probably would have done LASIK, and then he would have continued to have those nighttime issues until we took care of his lens at a later date.

For patients whose lenses are not clear, we can steer them toward a lens-based procedure. The multifocal IOL technologies that we have now are greatly improved over earlier models, and they are making many patients happy. Again, though, diagnostics like the HD Analyzer and the iTrace come in handy, as they allow us to ensure there is not too much corneal multifocality. We would not want to add to that with a multifocal implant.

On the other hand, if our modern diagnostics show that the lens is clear, we can do LASIK successfully because the technology has never been better. Finally, if we determine that the lens is clear in our evaluation, especially for a presbyope who is not ready to have his or her lens replaced, corneal inlay technology offers a great option. The Kamra inlay (AcuFocus) has become important in our practice.

The point is this: Refractive surgery volume is healthy when you consider both cornea- and lens-based procedures. New diagnostic devices and treatment technologies are revolutionizing what we are capable of doing for patients today.

The Millennial Generation is Ready for LASIK

J. Trevor Woodhams, MD



I was a little taken aback by this point/counterpoint because my ongoing experience is that LASIK has come surging back in recent years. I now am doing more LASIK than IOL cases, as was once the situation 10 to 13 years

ago. I suspect the reason for this has little to do with the LASIK procedure or its name and much more to do with knowing how to re-engineer the way we reach prospective

I believe we are now in the era of LASIK with airbags, so to speak. We should be able to say to prospective patients, 'If you have a complication, it would be extremely unlikely that we cannot fix it.' Any LASIK surgeon should be able to fix anything that is fixable, not just a selected subset of surgeons.

> —Dan Z. Reinstein, MD, MA(Cantab), FRCSC, DABO, FRCOphth, FEBO

patients. While word of mouth is always the best type of advertising, reaching a critical mass to sustain it usually requires ongoing paid communication with the public.

In the early days of LASIK, this was done with radio and print advertising. Those media (and, to a certain extent, television) were how members of the baby boom generation got their news and information on social trends and technologies. That generation, the massive post–World War II tsunami of affluent children, is now in its 50s to 70s. It has, therefore, moved decisively out of the marketplace for LASIK. Presbyopic lens exchange, despite its higher cost and risks, is now generally a better and more permanent solution for refractive (and lenticular) problems for the generation born between 1946 and 1964. LASIK practices ignore this demographic shift at their peril.

I would argue, therefore, that the dearth of LASIK patients has much more to do with demographic changes than with disenchantment over a procedure that has worn out its welcome. The generations that succeeded the baby boomers—generation X and generation Y—are much smaller and have had more economic challenges than their parents. This, combined with an attitude of entitlement fostered by a generation of generous government social programs, has naturally produced a significant drop in the number of patients able to afford an elective procedure paid for out of pocket.

However, the newest generation to enter the workforce—and, therefore, to have the discretionary income for an elective procedure such as LASIK—is huge, in fact, even bigger than the baby boom generation. The millennials, born from 1981 to about 2004, came of age with September 11, 2001, as their historical touchstone and the Internet and instant communication as their preferred avenue for news, personal contact, and awareness of social and technological trends. They do not listen to the radio, read newspapers or magazines, or necessarily believe what established organizations tell them.

In March 2014, the Pew Research Center issued a report about millennials in adulthood, noting that they tend to be detached from institutions but networked with friends.¹ The report further said that millennials are more upbeat than older adults about America's future. They are also increasingly skeptical of the ability of the state, either in the United States or in the European Union, to be able to provide what has been promised. Despite resistance, the gig economy—the reliance on freelance or Internetbased piecework such as driving for Uber, rather than fulltime work—is increasingly becoming the norm.

The term LASIK is fine. The procedure has a great reputation for safety and efficacy. And, by now, no one expects somebody else (ie, the government or insurance) to pay for it. If anything, the term LASIK is becoming a generic term meaning "painless and safe elective eye surgery to see better," when what is actually performed may be a corneal inlay, presbyopic lens exchange, or PRK.

To reach the new generation of prospective LASIK patients requires a familiarity with millennial behavior and the ability to reach these individuals through nontraditional means. These means are primarily the social networks of Facebook, Google+, Twitter, Snapchat, and a host of short-lived apps that a boomer like me sometimes cannot even understand.

Millennials do not trust anyone they perceive to be selling them something. And they can instantly check one's credibility online.

LASIK is far from dead. Those who will succeed in refractive surgery in the coming years will be those who figure out how to reach and attract the new, emerging market of millennials.

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