Introduction of Implantable Contact lenses (ICL) Vision Correction surgery and Other Laser Vision Correction Surgeries

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Implantable contact lenses vision correction surgery is a method of vision correction for very high nearsightedness, farsightedness, and astigmatism. It is suitable for patients who are limited to LASIK, PRK, LASEK etc. excimer Laser vision correction surgeries due to thickness of cornea. The implants ICL from STARR Co. in United States is placed in between iris and crystalline lens to help Improve vision. It is a supplement surgery for laser vision correction operations.

ICL operation method is similar to cataract surgery. The main difference is that ICL operations do not need to remove the natural crystalline lens from our eyes. Thus it maintains the accommodative functions of eyes and minimizes the possibility of wearing reading glasses after the surgery for young patients. And thus it helps to improve the living quality.

Up to now, there is a few clinics offering ICL operations in Canada and very few ICL cases had been achieved. It is because there are not a lot of people with very high myopia (especially over -10.00) and the potential complications of ICL surgeries is higher than normal laser vision correction surgeries. The reason for that is ICL is an intra-ocular surgery while laser vision corrections are done at the surface of the eye. ICL operations may cause complications like glaucoma, cataracts (it is possible that the implant rubs against the natural lens due to tiny space in between them) etc. Often, to reduce the risk, only one eye is done at a time, not both. If you are interested in ICL surgeries, please visit www. visianinfo.com or consult accredited ICL vision clinic to see if you are suitable for this procedure.

If you don’t have very high myopia or cornea is thick enough, you should consider laser vision correction first. Due to various laser operations, such as LASIK, LASEK, PRK etc, you have to have a full eye examination first and then you will be referred to a laser vision correction clinic by your eye doctor. Consultants at the laser vision correction clinic will decide which is the best method for you. LASIK is the main procedure among all the laser vision corrections because of its stability, fast recovery and less side effects. Laser surgery has been upgraded to a bladeless LASIK era. It uses Femtosecond laser intralase to cut corneal flap, which is very precise and safe, especially for those who have thin corneas, high myopia and variable corneal curvatures.

Presently, laser vision correction procedures are customized to the size of the eye. Traditional LASIK operations are performed based on regular corneal measurements, not taking into consideration of the aberration of the eye. Aberration is different for everyone, just like one’s finger print. That is the reason why patients may have symptoms such as glare, flare and decreased vision at night after LASIK. Wavefront Analyzer could precisely collect refractive data and creates custom LASIK for different patients. Custom LASIK also uses Iris Registration (IR) system. This is used because patients are in a sitting position during an eye examination and lying down during the surgery. Thus the eye’s position may be changed. IR Systems could help send laser beams precisely to corresponding cornea positions and would make the best result after all.

In summary, the choice of procedure should depend on the result of detailed eye examinations. Any eye surgery contains potential risks. And thus a full examination by an optometrist and consultations at an accredited vision correction clinic would help reduce surgery risks.